

ORDER NO. ARP1577

STEREO AMPLIFIER

A-X540 A-X440 A-X340

MODELS A-X540, A-X440 AND A-X340 HAVE FOUR VERSIONS:

T		Applicable mode	i		
Туре	A-X540	A-X440	A-X340	Power requirement	Export destination
HE	0	0	0	AC220V,240V (switchable)	European continent
НВ	0	0	. 0	AC220V,240V (switchable)	United Kingdom
HEZ	0	0	0	AC220V,240V (switchable)	West Germany
SD	0	0		AC110V,120V - 127V,220V, 240V (switchable)	Kingdom of Saudi Arabia and general market

- This servise manual is applicable to the HE and HB types.
- For the HB type, refer to page 48.
- For the other types, refer to additional servise manual.

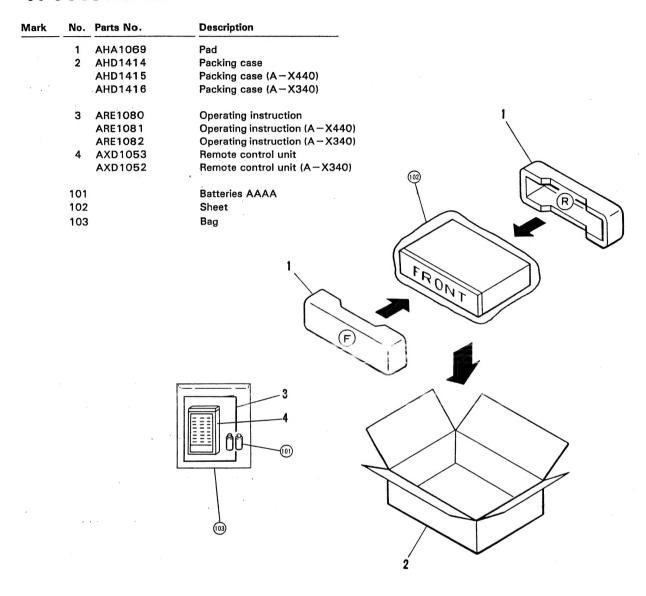
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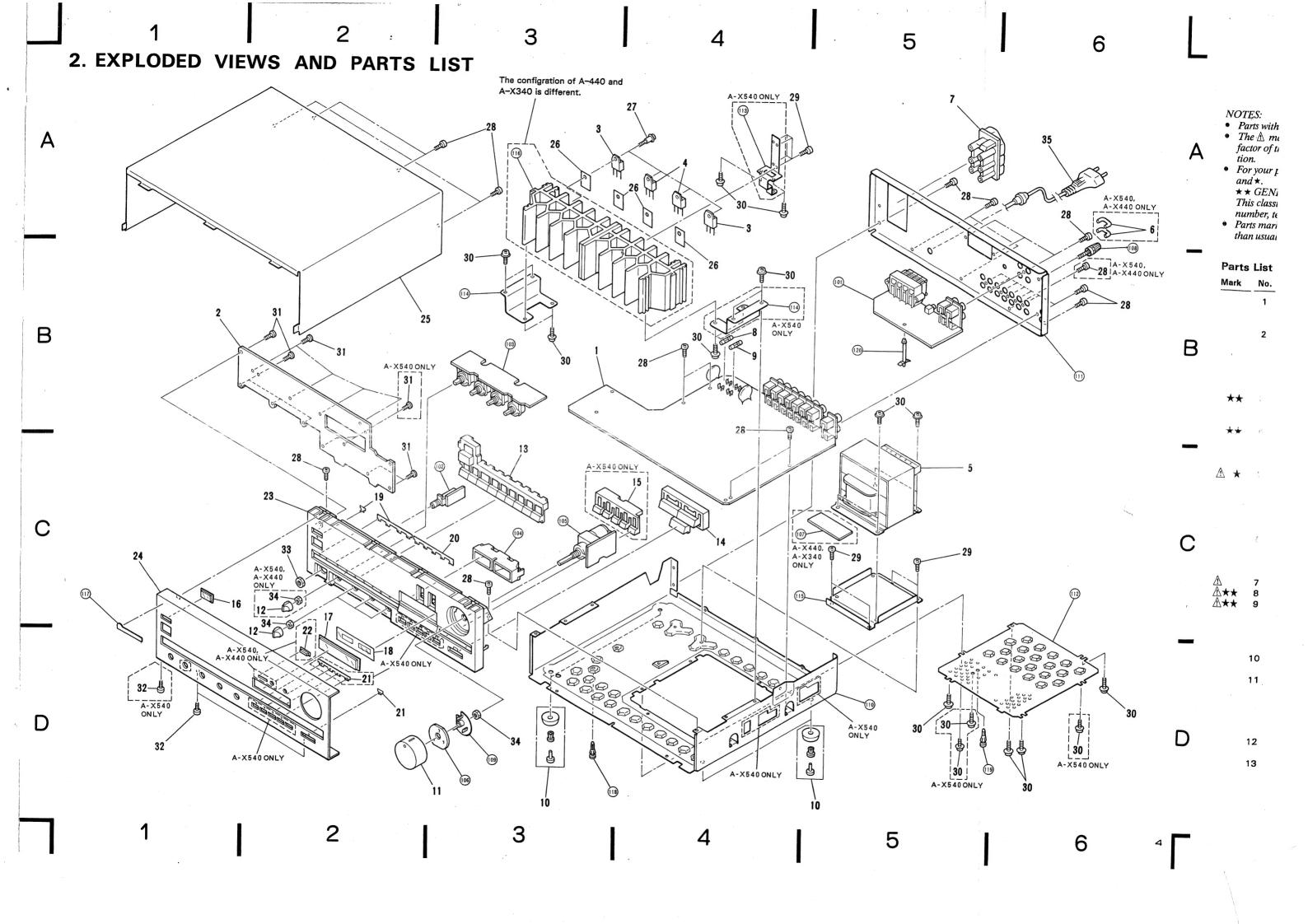
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1. PACKING





NOTES:

• Parts without part number cannot be supplied.

• The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designa-

• For your parts Stock Control, the fast moving items are indicated with the marks ★ ★ and ★.

★★ GENERALLY MOVES FASTER THAN★

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

Parts marked by "®" are not always kept in stock. Their delivery time may be longer

than usual or they may be unavailable.

Parts List

540, 440 ONLY

	Mark	No	. Parts No.	Description	Mark	No.	Parts No.	Description
		1	AWZ1770	AF main assembly		14	AAD1384	Direct knob (DAT DIRECT, CD
			AWZ1777	AF main assembly (A-X440)			70.07004	DIRECT, PURE DIRECT LINE)
			AWZ1781	AF main assembly (A-X340)			AAD1385	Direct knob (A – X340)
		2	AWZ1772	Control main assembly			70.1000	Direct Kilob (A-X340)
R			AWZ1779	Control main assembly		15	AAD1386	REC SELECTOR knob (SOURCE,
				(A-X440)		. •		TUNER, DAT ► TAPE, TAPE ►
			AWZ1782	Control main assembly				DAT, OFF)
				(A – X340)		16	AAK1333	Sencer acrylic lens
							AAK1473	Lamp panel
	**	3	2SA1302	Transistor (Q3,Q4)			AAK1474	Lamp panel (A – X340)
			2SA1264N	Transistor (Q3,Q4) (A – X440)		18	AAK1475	Display seat
			2SA1263N	Transistor (Q3,Q4) (A - X340)		. •	AAK1476	Display seat (A – X340)
	**	4	2SC3281	Transistor (Q1,Q2)		19	AAK1482	Indicator lens L
			2SC3181N	Transistor (Q1,Q2) (A – X440)			AAK1483	
			2SC3180N	Transistor (Q1,Q2) (A-X340)			777171700	Indicator lens L (A – X340)
	۸ .					20	AAK1484	Indicator lens R
	\triangle \star	5	ATS1141	Power transformer			AAK1485	Indicator lens A
				(220V/240V,T1)			AAK1486	Indicator lens A (A – X440,
			ATS1142	Power transformer			7000	A-X340)
				(220V/240V,T1) (A-X440)		22	AAK1487	DILECT REC lens
			ATS1143	Power transformer			AMB1397	Panel base
				(220V/240V,T1) (A-X340)			AMB1398	Panel base (A – X440)
\cap		6	AKM1019	Jumper plug			AMB1399	Panel base (A – X340)
			AKM1004	Jumper plug (A – X440,			7111157000	raner base (A=X340)
				A-X340)		24	ANB1226	Front panel
	^						ANB1227	Front panel (A – X440)
	<u>^</u>	7	AKP-502	AC socket (3P,AC OUTLET)			ANB1228	Front panel (A – X340)
	^ ★★	8	AEK-403	Fuse (T2.5A/250V,FU1)		25	AZN1802	Bonnet cover
	△ ★★	9	AEK-403	Fuse (T2.5A/250V,FU2)			AZN1748	_
			AEK-017	Fuse (T2A/250V, FU2)			ALITI 740	Bonnet cover (A – X440, A – X340)
				(A-X440)				A-X340)
			AEK-018	Fuse (T1.25A/250V, FU2)		26	AEE1014	Mica sheet
				(A-X340)		20	AEC-818	
		10	AMR1285	Leg assembly			ALC 010	Mica sheet (A – X440, A – X340)
				•		27	ABA-297	Screw
		1.1	AAB1044	Retary knob (VOLUME)			ABA - 298	Screw
			AAB1081	Rotary knob (VOLUME)			ABA1009	Screw
				(A-X440)			ABA1011	Screw
			AAB1082	Rotary knob (VOLUME)		00	ADATOTT	Sciew
				(A-X340)		31	DD700D000F140	
D		4.0	4.54050				BBZ26P080FMC	Screw
$\boldsymbol{\mathcal{O}}$		12	AAB1070	Rotary knob (BASS EQ LEVEL,			BBZ30P080FZK	Screw
				BASS, TREBLE, BALANCE)			ABN-065	Nut
		13	AAD1382	Function knob (STAND-BY/ON,	A		NK90FUC	Nut
				SP-A, SP-B, BASS EQ, AUX,	\triangle	35	ADG1021	AC power cord
				TAPE, TUNER, PHONO, DAT,				
				CD)				
			AAD1383	Function knob (A-X340)				

Mark	No.	Parts No.	Description
	101		SP assembly
	102		HEADPHONE assembly
	103		TONE assembly
	104		LAMP assembly
	105		VR assembly
	106		LED assembly
	107		CONNECTOR assembly
	108		Terminal (GND)
	109		VOL PCB holder
	110		Chassis
	111		Rear panel
	112		Bottom plate
	113		Heat sink holder A
	114		Heat sink holder B
	115		Trans holder
	116		Heat sink
	117		Name plate
	118		Spacer
	119		PCB spacer
	120		PCB spacer

Line voltage selection (HE, HB TYPES)

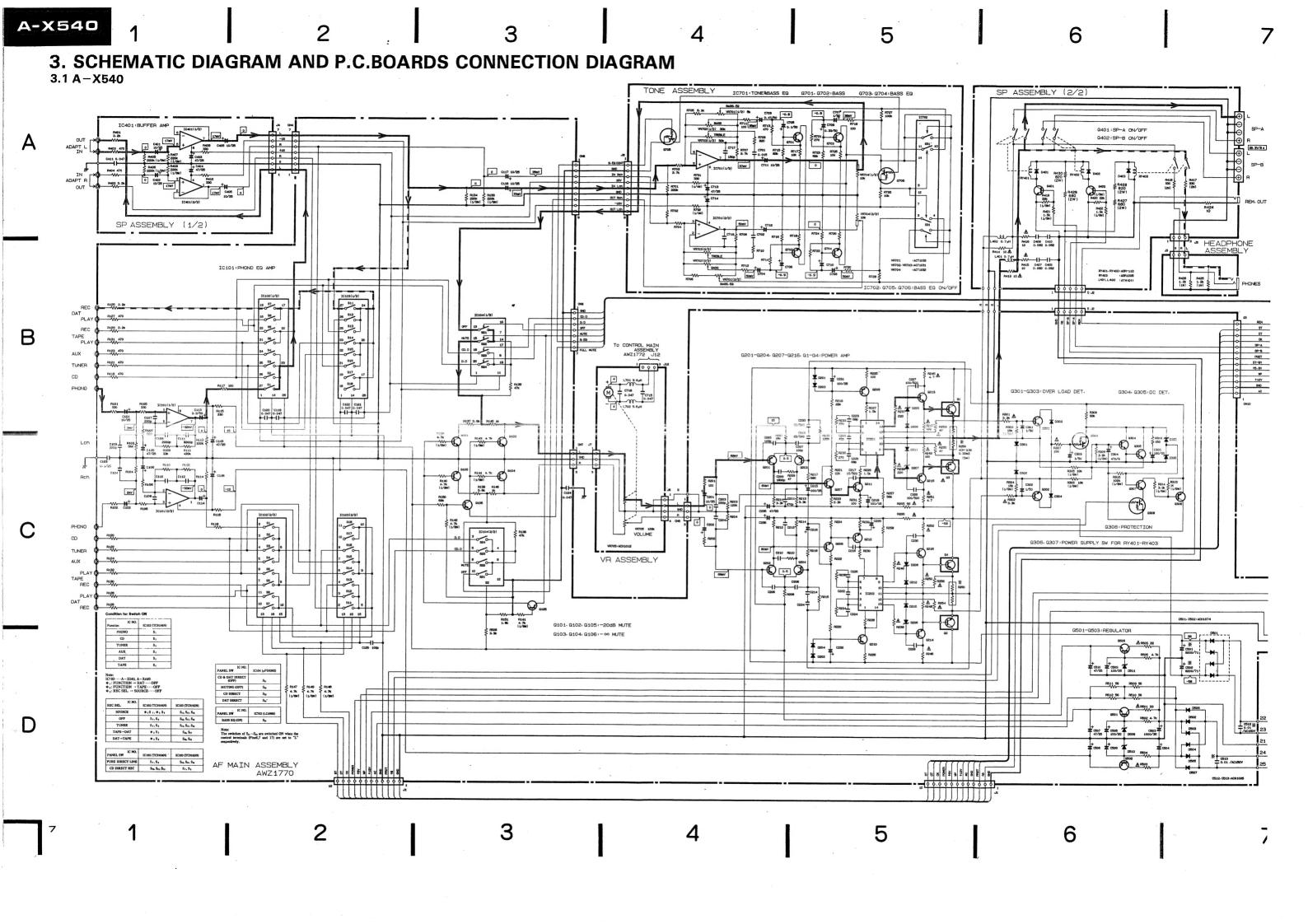
Line voltage can be changed with following steps.

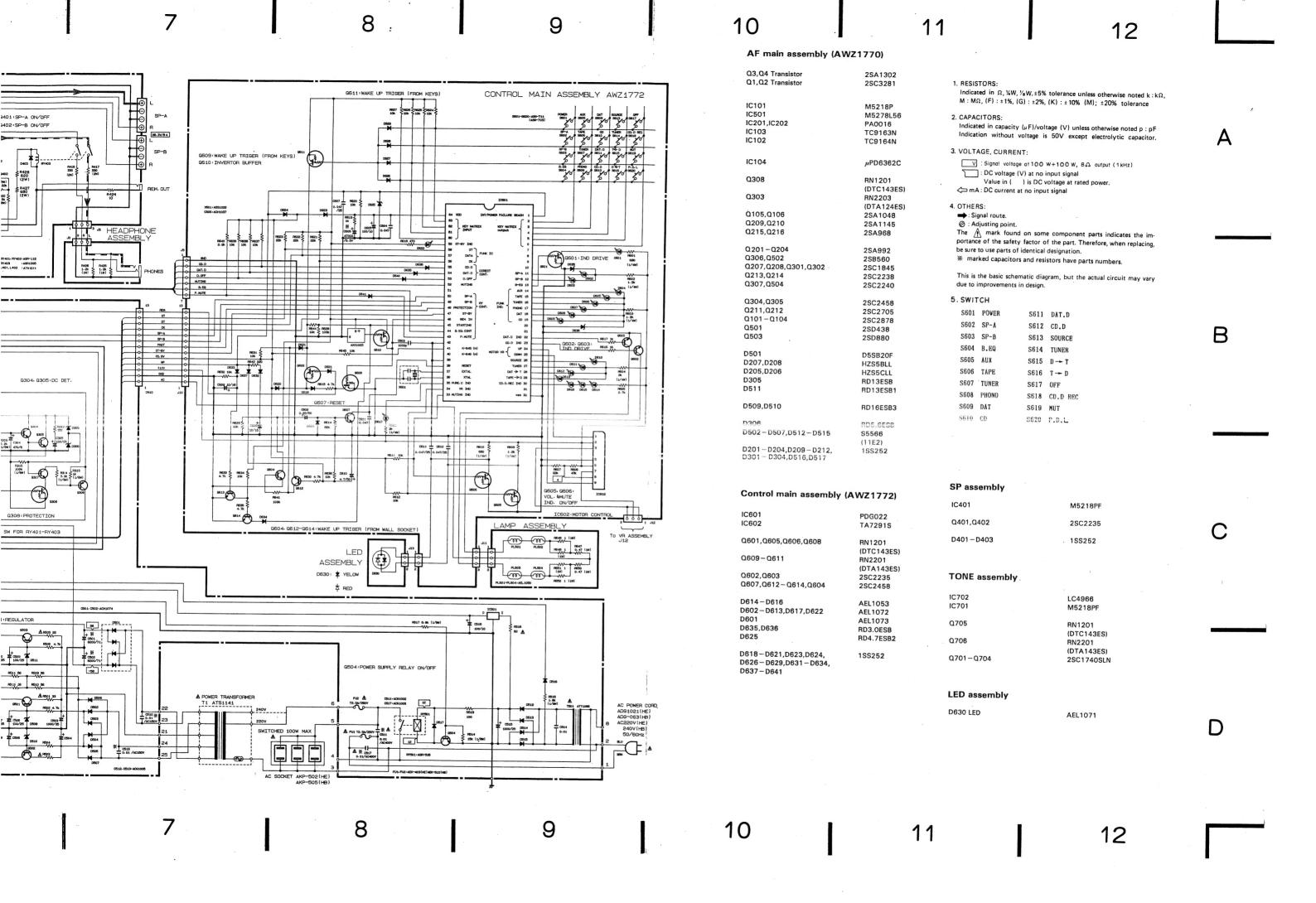
- 1. Descomment the AC power cord.
- 2. Remove the top cover.
- 3. Change the connection wire (To Power transformer) of Terminal No. 3 (White) as follows.

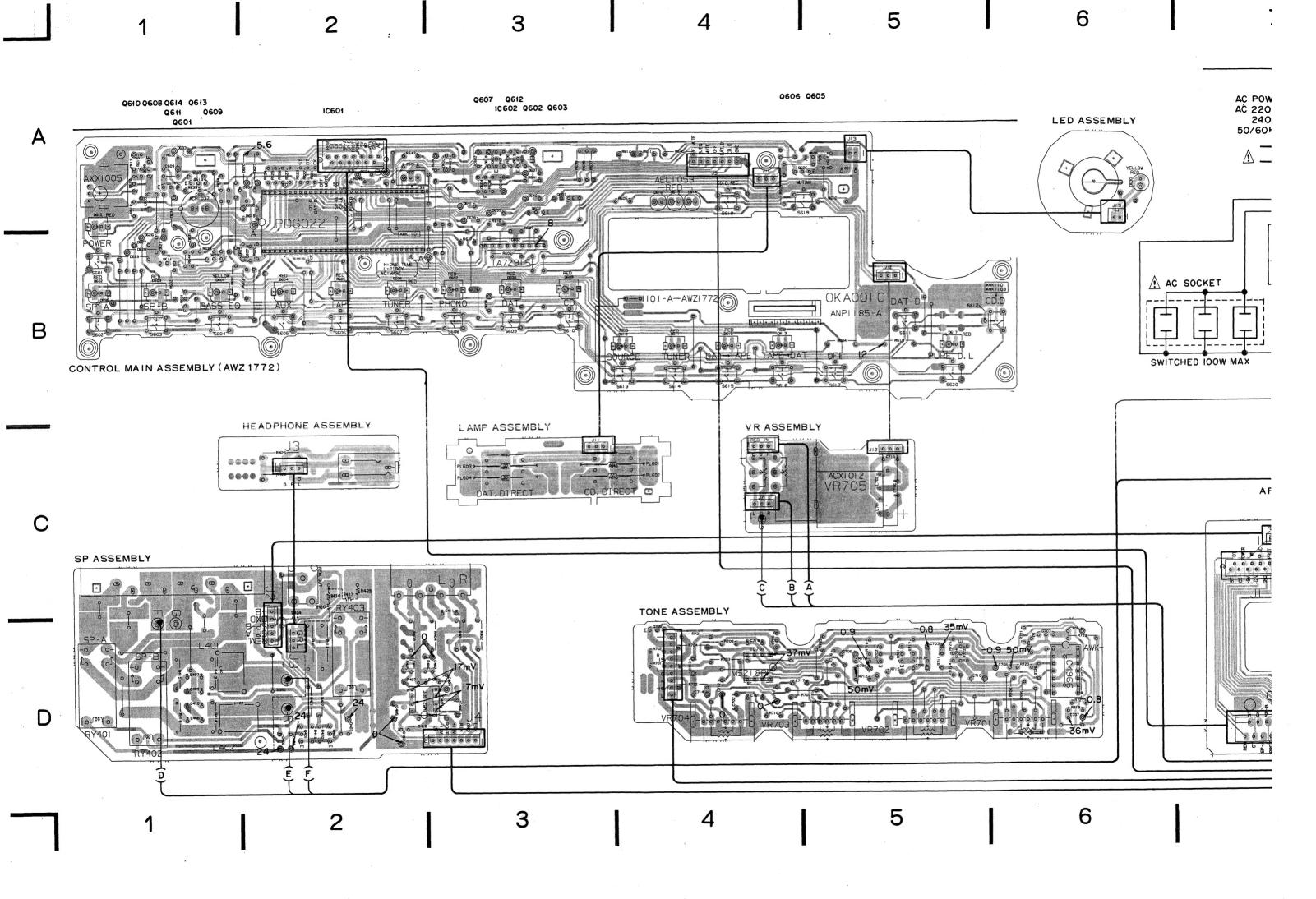
Voltage	Terminal No. 3	Terminal No. 5
220V	White	
240V		White

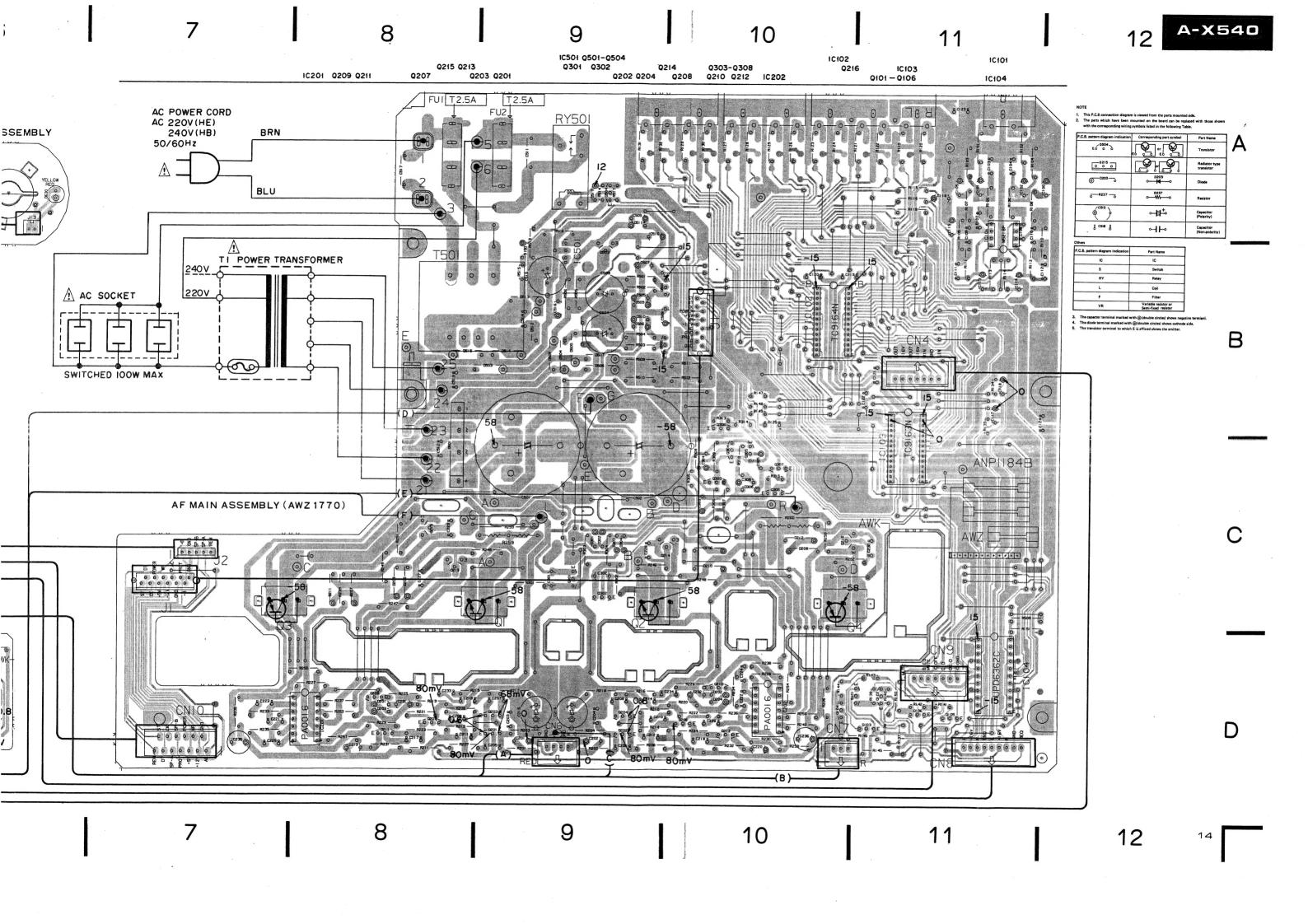
4. Stick the voltage level on the rear panel.

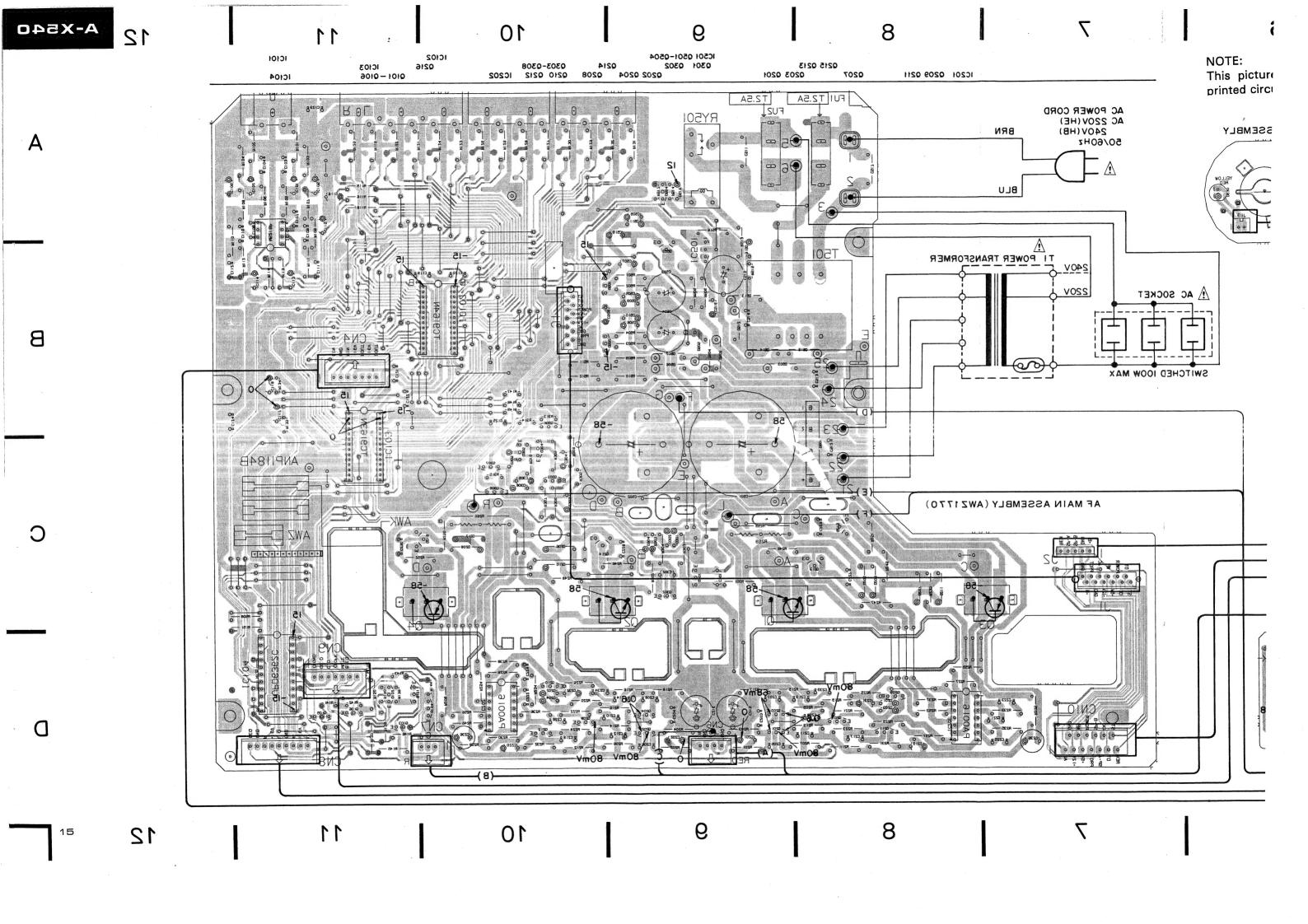
Part No.	Description	
AAX-193	220V level	
AAX-192	240V level	

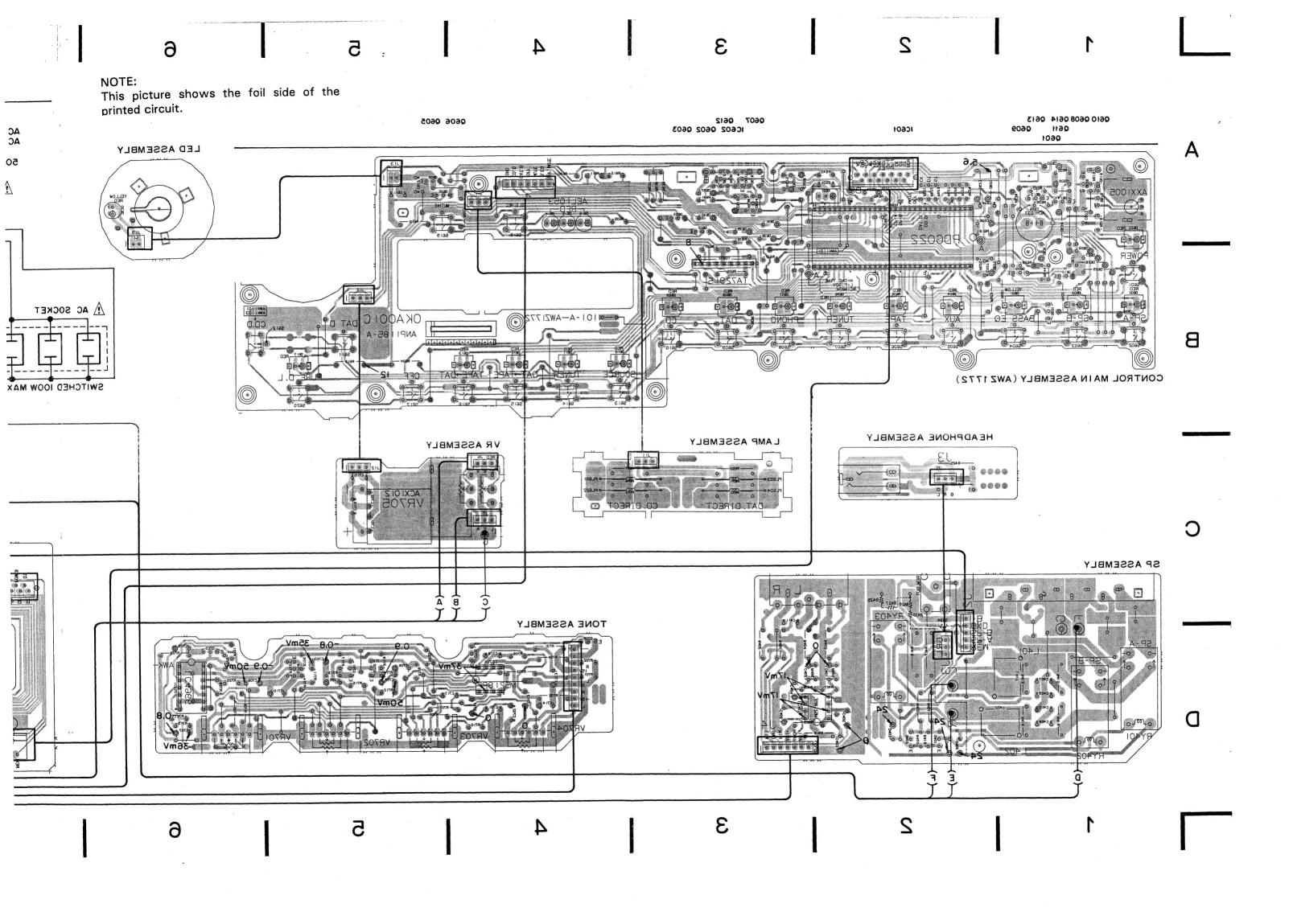


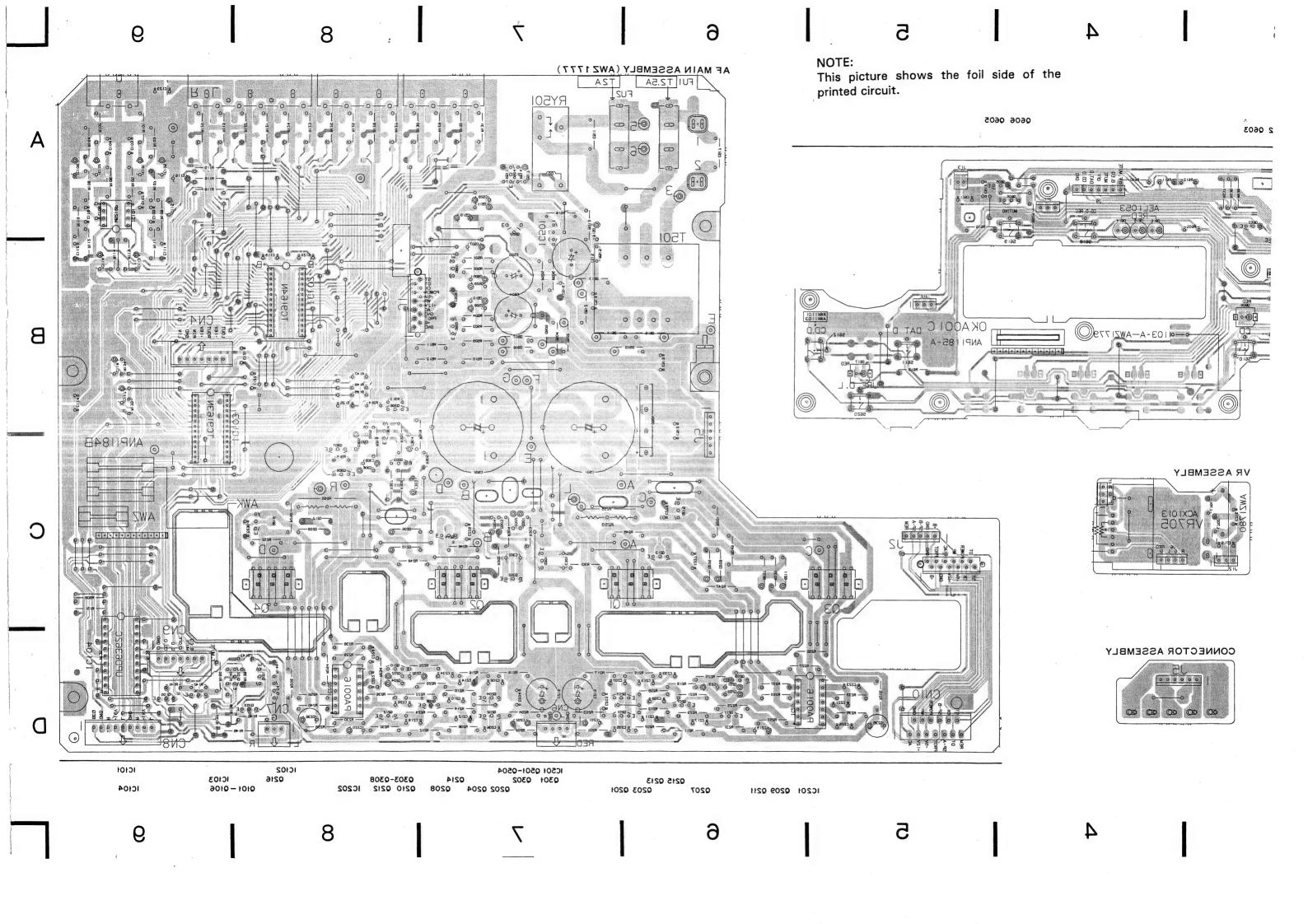


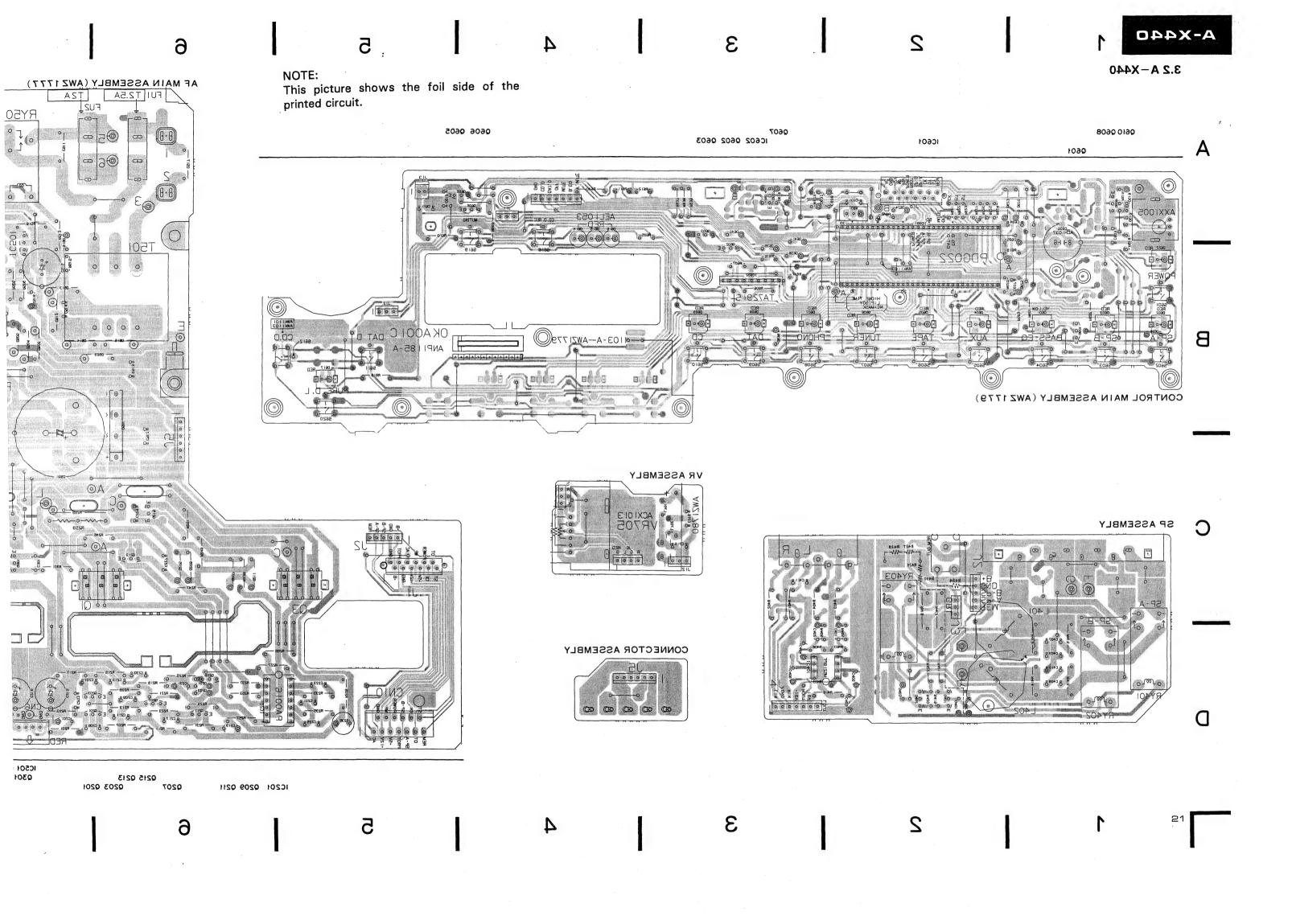


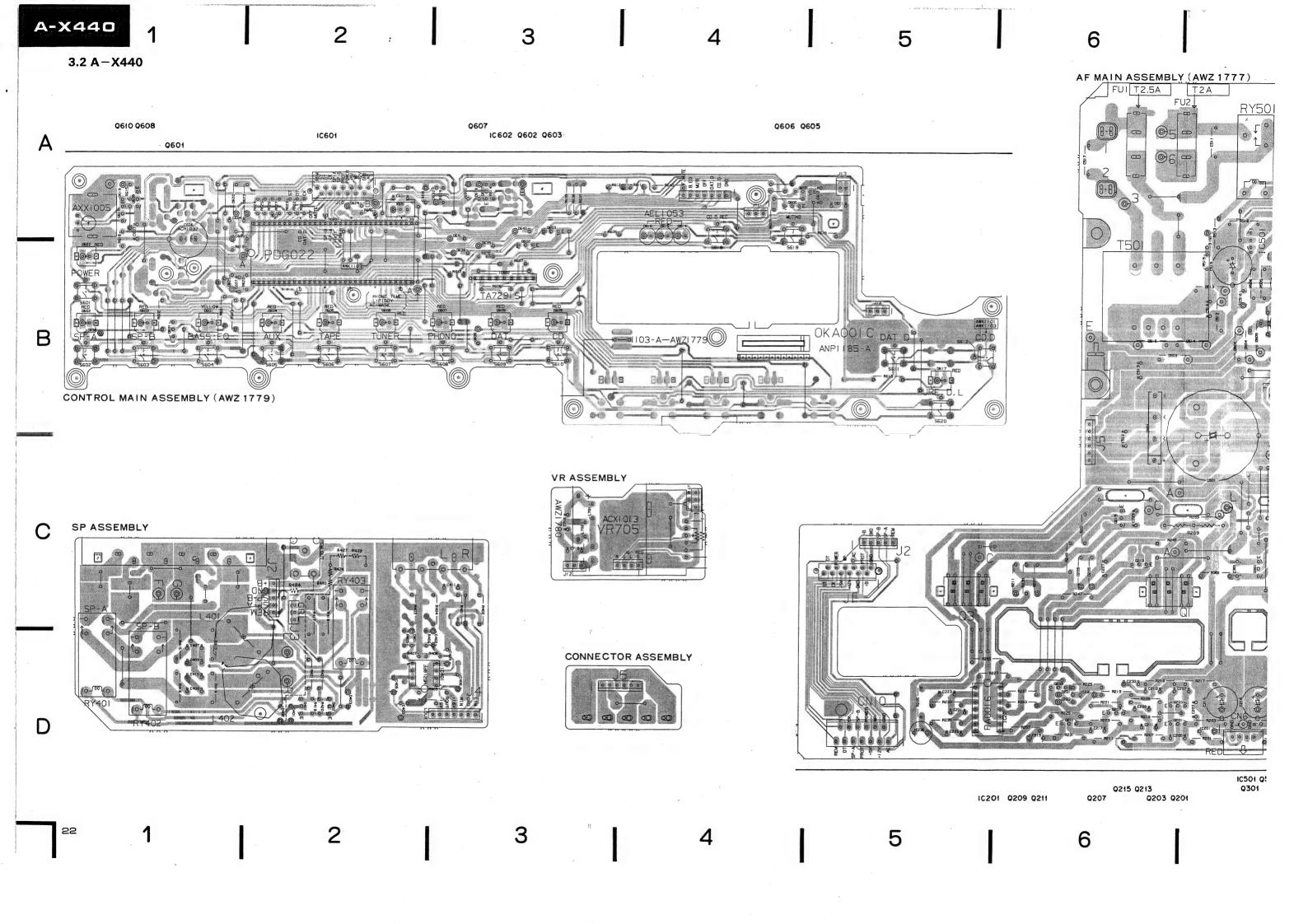


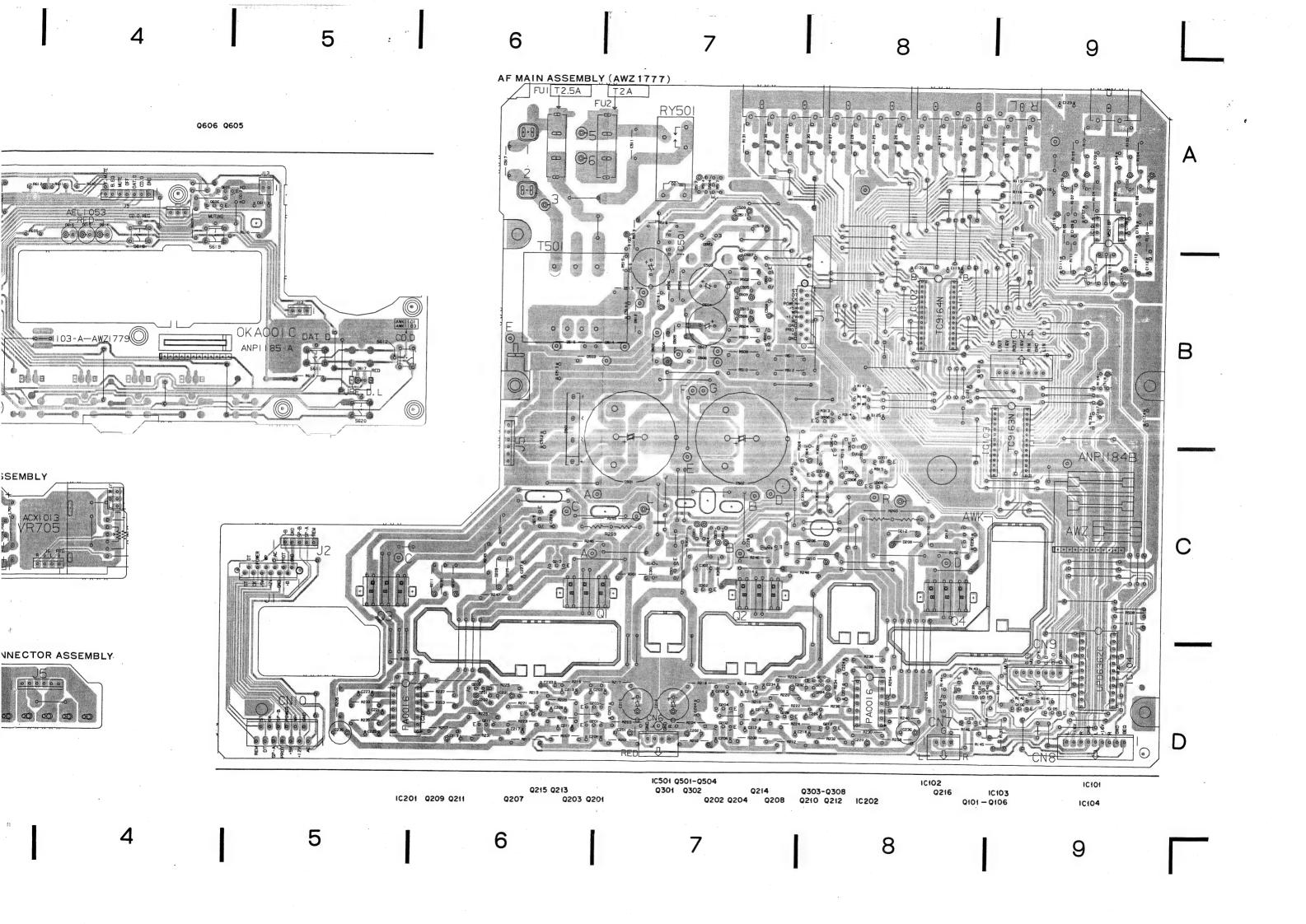


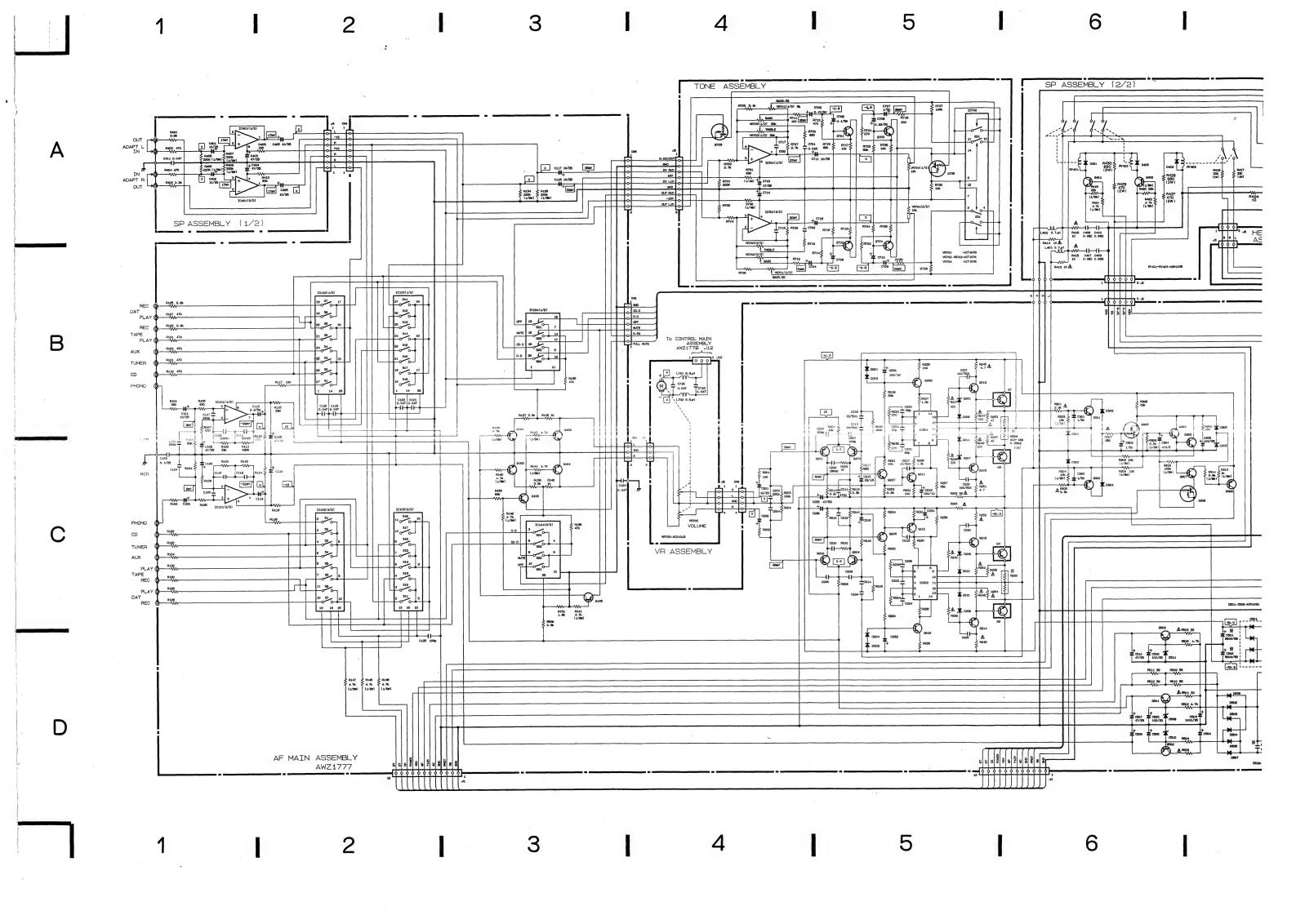


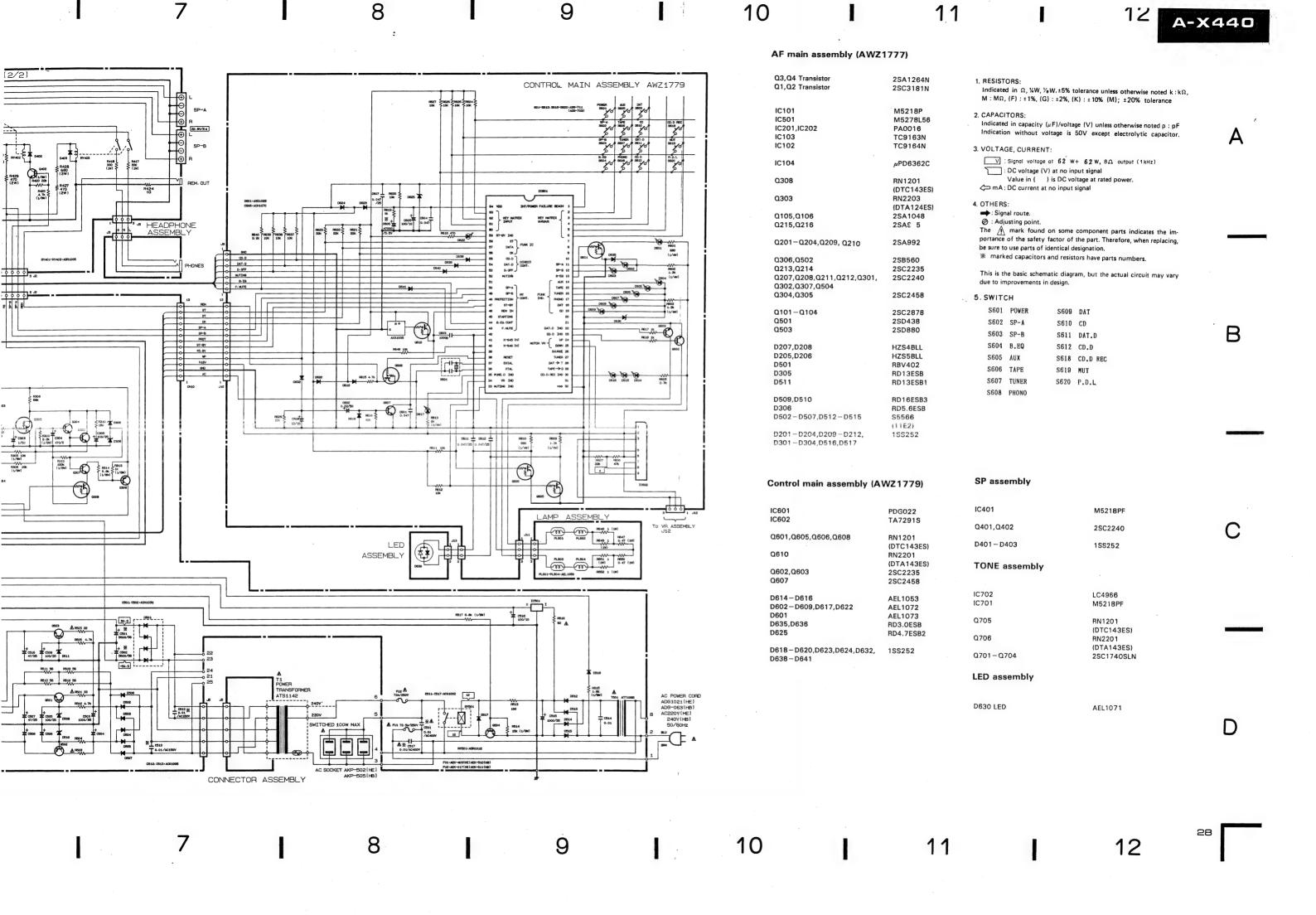


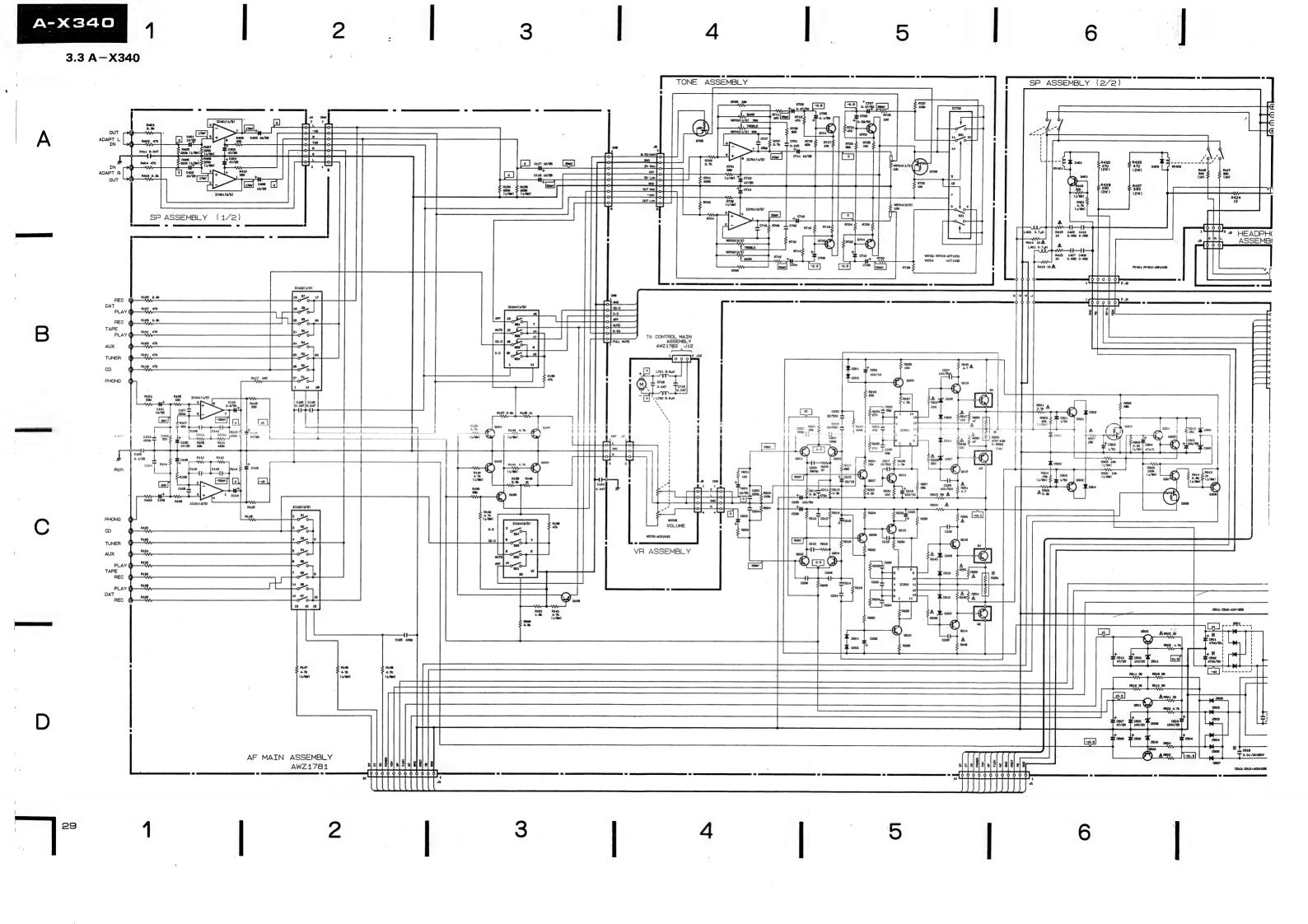


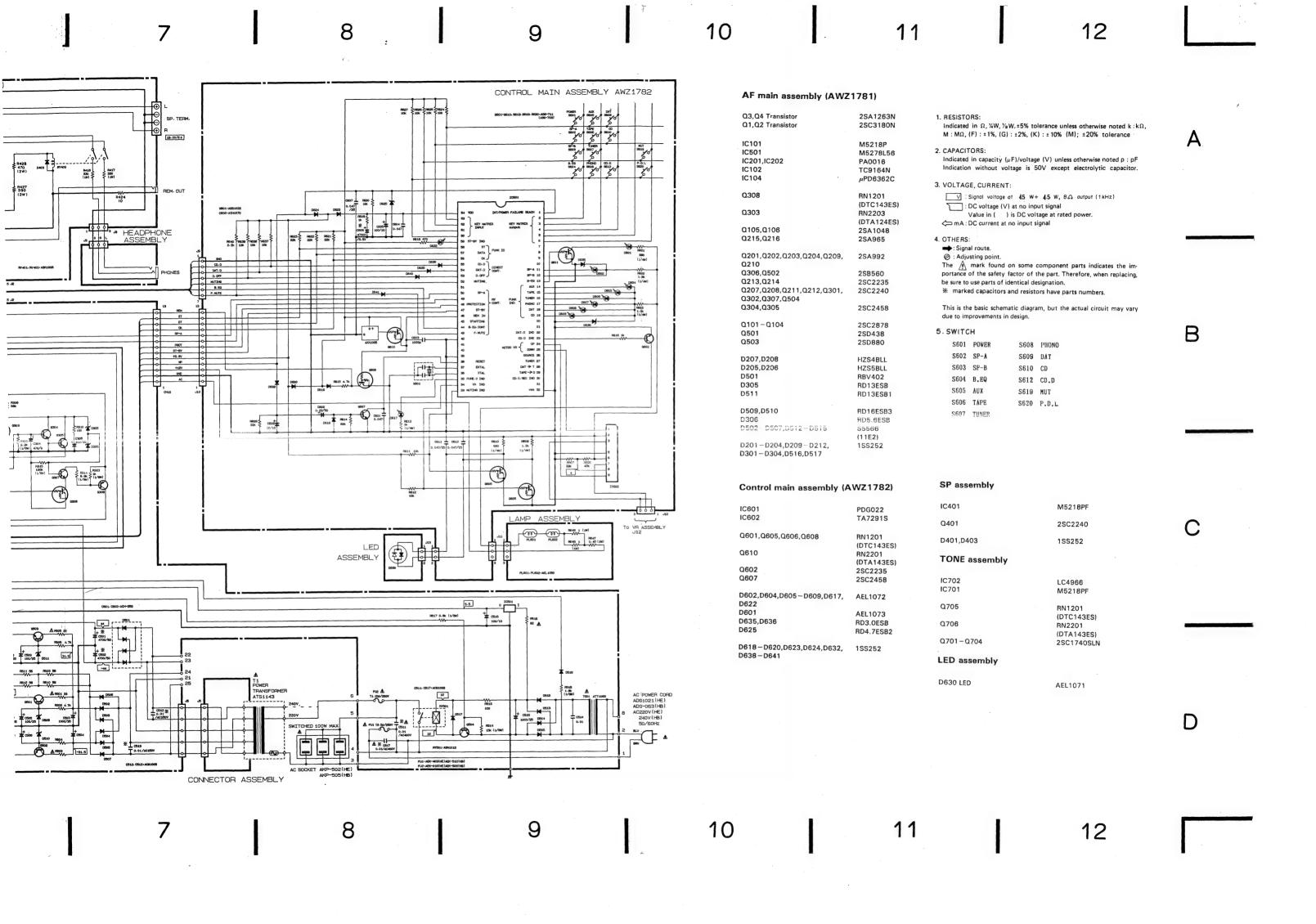


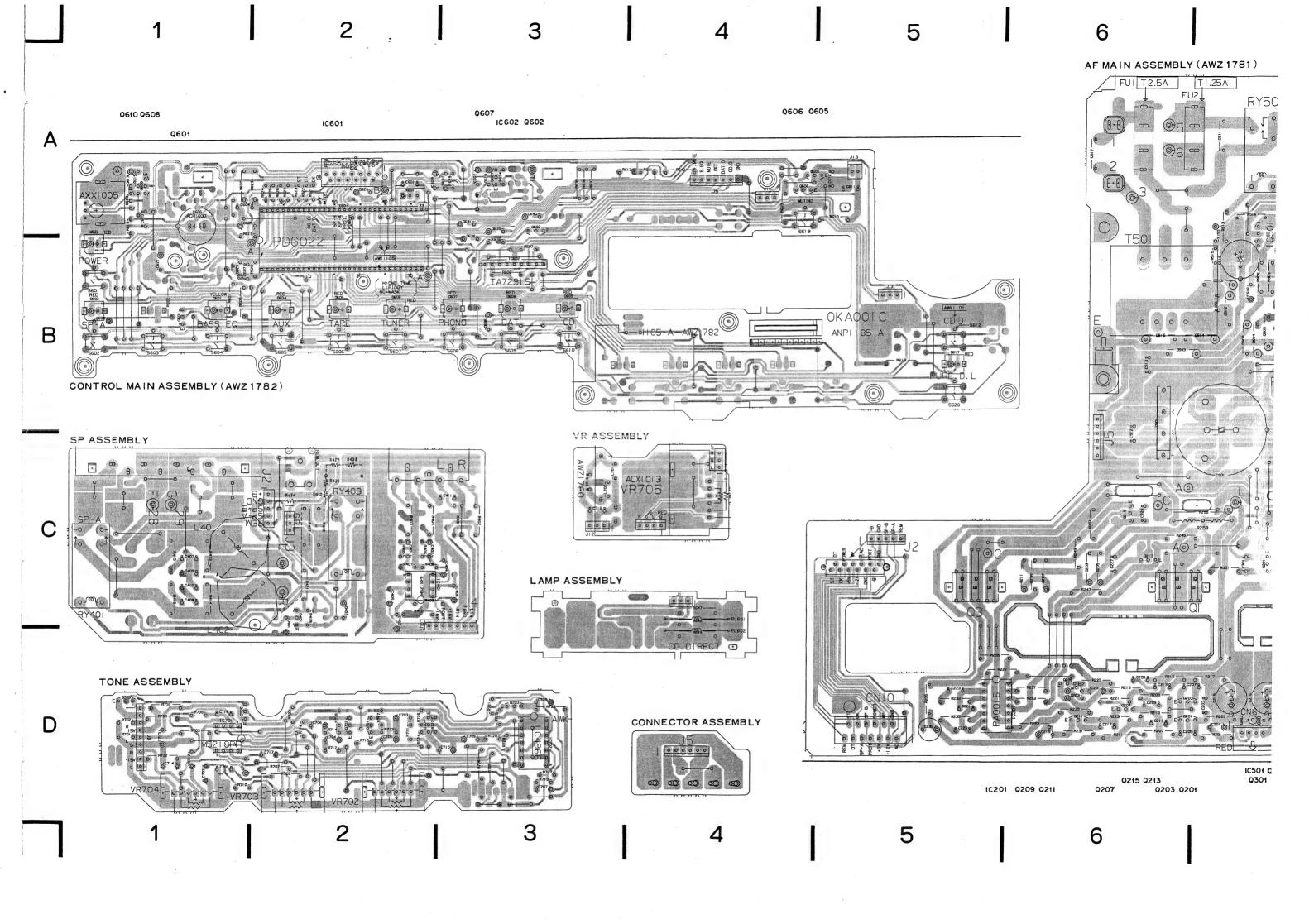


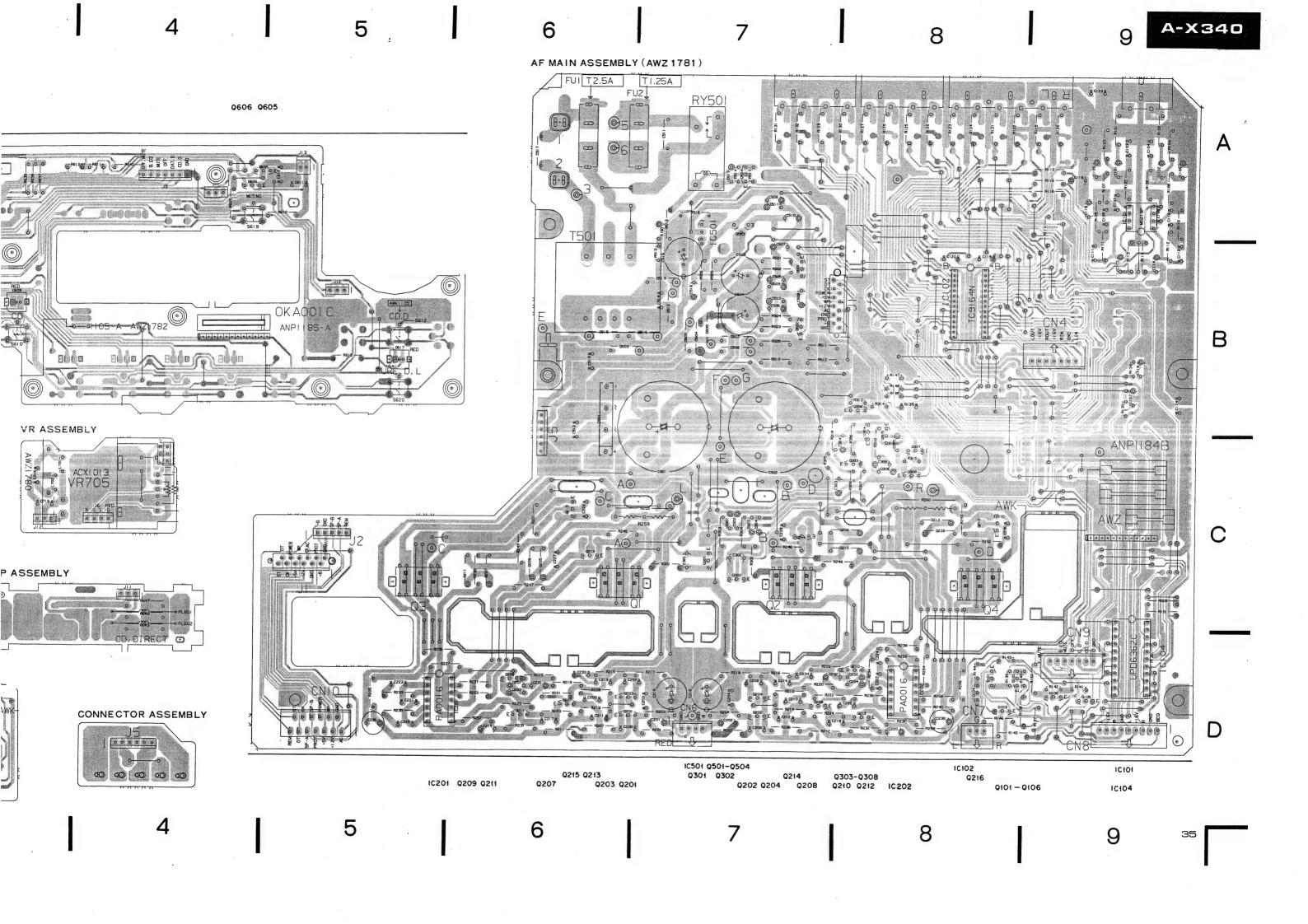


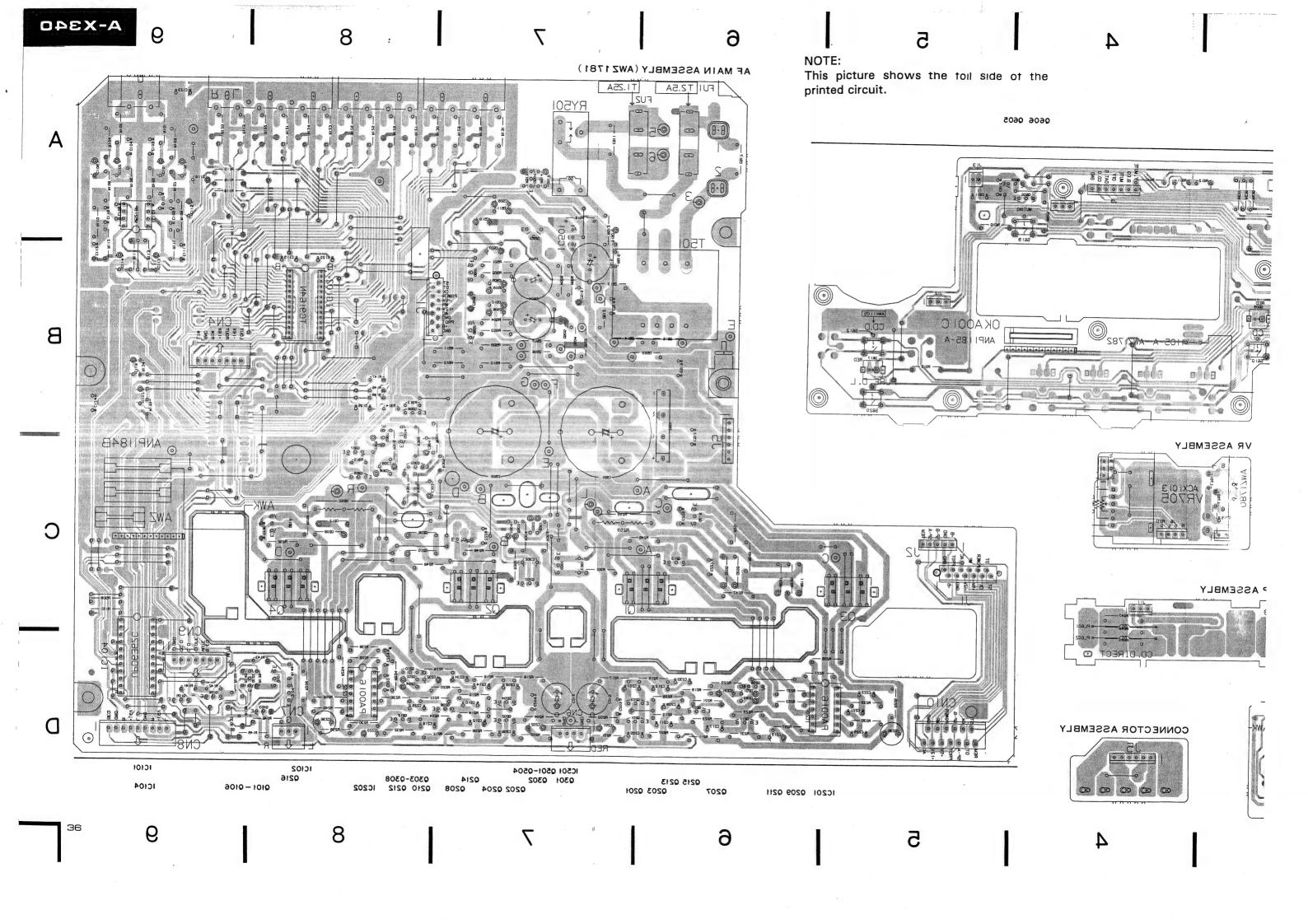


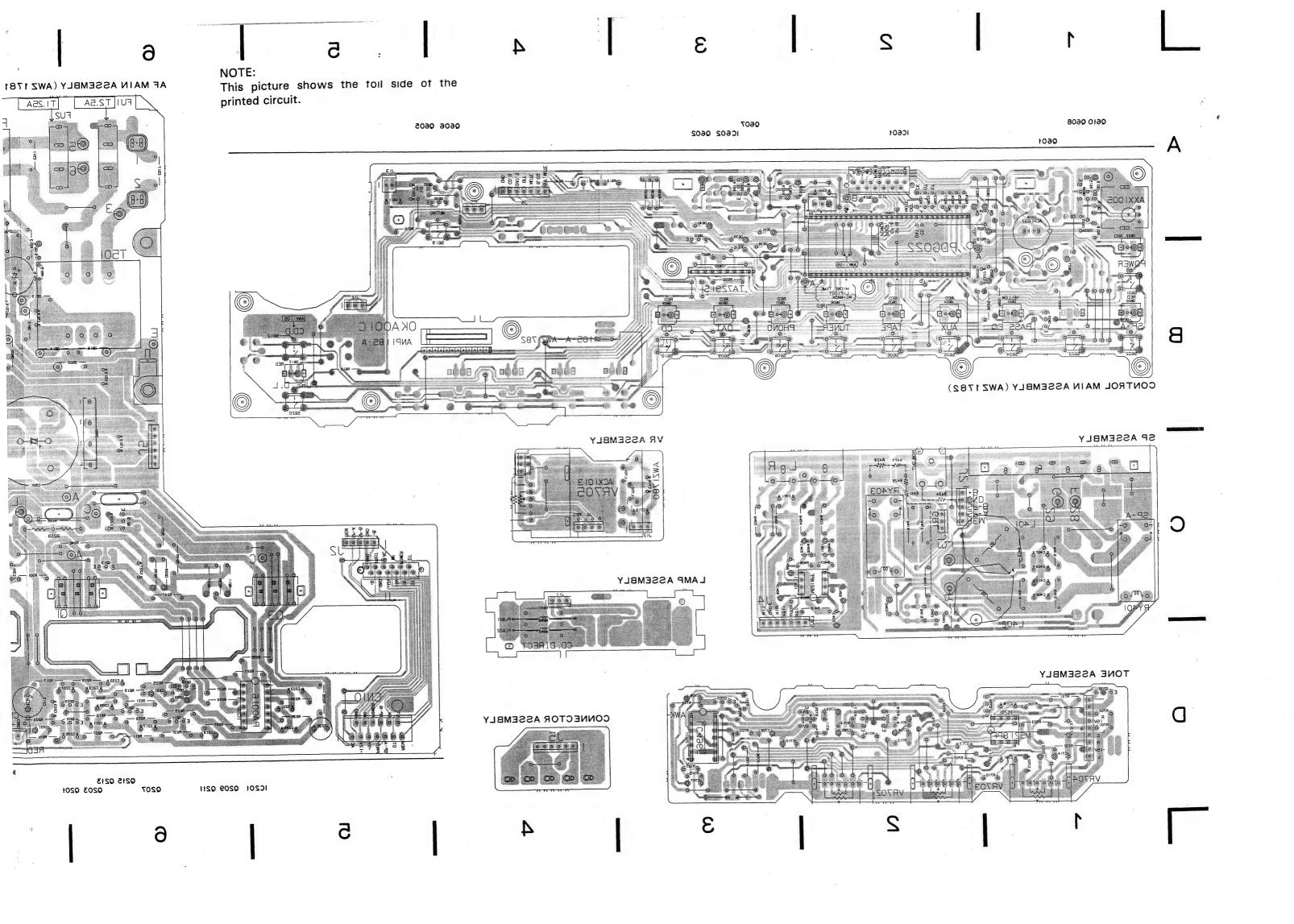


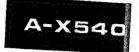






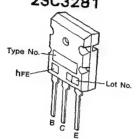






External Appearances of Transistor and ICs

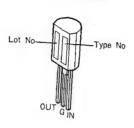




M5218P M5218PF



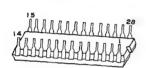
M5278L56



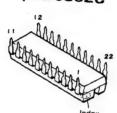
PA0016 LC4966



TC9163N TC9164N



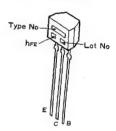
μPD6362C



RN1201 RN2203 RN2201



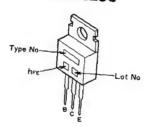
2SA1048 2SC2458



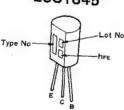
2SA1145 2SC2240 2SC2878 2SC2705



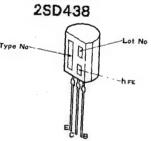
2SA968 2SD880 2SC2238



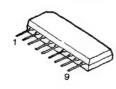
2SA992 2SC1845



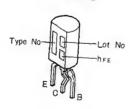
2SB560



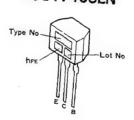
TA7291S



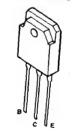
2SC2235 2SA965

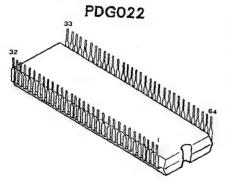


2SC1740SLN

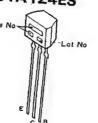


2SA1263N 2SC3180N 2SA1264N 2SC3181N





DTA143ES DTC143ES DTA124ES



4. ELECTRICAL PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "®" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- For your parts Stock Control, the fast moving items are indicated with the marks $\star \star$ and \star .
 - ★★ GENERALLY MOVES FASTER THAN ★
 - This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
- Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

J /0, unu	10 /0/.		
560Ω	56×10^{1}	561	
$47k\Omega$	47×10^{3}	473	RD1/4PS 4 7 3 J
0.5Ω	OR5		RN2H 🖸 🗷 🗊 K
1Ω	010		

4.1 A-X540

Miscellaneous Parts List

P.C.BOARD ASSEMBLIES

Mark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
	AF main assembly	AWZ1770	**	IC104	μPD6362C
	Control main assembly	AWZ1772			
	SP assembly		**	Q308	RN1201
	HEADPHONE assembly				(DTC143ES)
	TONE assembly		**	Q303	RN2203
	•				(DTA124ES)
	LAMP assembly		**	Q105,Q106	2SA1048
	VR assembly		**	Q209,Q210	2SA1145
	LED assembly		**	Q215,Q216	2SA968
OTHE	RS		**	Q201-Q204	2SA992
			**	Q306,Q502	2SB560
Mark	Symbol & Description	Part No.	**	Q207,Q208,Q301,Q302	2SC1845
**	Q3,Q4 Transistor	2SA1302	**	Q213,Q214	2SC2238
**	Q1,Q2 Transistor	2SC3281	**	Q307,Q504	2SC2240
XX	Q1,Q2 Hallsistor	2303201			
∧ ★	T1 Power transformer (220V/240V)	ATS1141	**	Q304,Q305	2SC2458
<u>/</u> 1\	11 Tower transformer (2207/2407)	AIOTITI	**	Q211,Q212	2SC2705
	Jumper plug	AKM1019	**	Q101-Q104	2SC2878
⚠	AC socket (3P OUTLET)	AKP-502	**	Q501	2SD438
<u> </u>	AC SOCKER (SI COTELT)	AKI 302	**	Q503	2SD880
∆ ★★	FU1.FU2 Fuse (T2.5A/250V)	AEK-403			
			*	D501	D5SB20F
\triangle	AC power cord	ADG1021	*	D207,D208	HZS5BLL
	Remote control unit	AXD1053	*	D205,D206	HZS5CLL
			*	D305	RD13ESB
			*	D511	RD13ESB1
AF m	ain assembly (AWZ1770)				
SEMIC	CONDUCTORS		* *	D509,D510	RD16ESB3
Mark	Symbol & Description	Part No.	*	D306	RD5.6ESB
4.4	IC101	M5218P	*	D502-D507,D512-D515	S5566
**	IC501	M5278L56			(11E2)
**	IC201,IC202	PA0016	*	D201-D204,D209-D212,	155252
	IC103	TC9163N		D301 - D304,D516,D517	
**	10100	10310314			

TC9164N

IC102

RELAY	7		Mark	Symbol & Description	Part No.
Mark	Symbol & Description	Part No.		R313,R303-R306,R315,R514,	RD1/8PM
<u>^</u> **	RY501 Relay	ASR-516		R515,R309,R133,R134,R314, R139-R144,R147-R149,R517	
rran:	SFORMER		\triangle	R505,R501,R503,R245,R246, R251,R252	RFA1/4PS
/lark	Symbol & Description	Part No.			
<u>^</u>	T501 Power transformer	ÁTT1066		Other resistors	RD1/4PM□□□
CAPÁ	CITORS		OTHE	RS	
Viark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
Ŷ	C511 Power capacitor	ACG1002		4P Pin jack (TAPE) 4P Pin jack (DAT)	AKB1007 AKB1051
	(0.01/AC400V) C512,C513 Power capacitors	ACG1005		2P Pin jack (PHONO)	AKB1052
	(0.01/AC150V) C501,C502 (8200/71)	ACH1074		6P Pin jack (CD, TUNER, AUX) Transistor socket	AKB1053 AKH-017
	C227-C230	CCCSL101K500			
\triangle	C517 Power capacitor	ACG1003			
	(0.01/AC400V)		Contr	ol main assembly (AWZ17)	72)
	C217,C218	CCCSL150K500	SEMIC	CONDUCTORS	
	C213,C214,C233,C234 C103,C104,C107,C108,C203,	CCCSL220K500 CKMYB221K50	Mark	Symbol & Description	Part No.
	C204	CCCCI 470 IEO	**	IC601	PDG022
	C221,C222 C223-C226	CCCSL470J50 CCCSL680J50	**	IC602	TA7291S
	C125 C205 - C209	CCMSL101J50	**	Q601,Q605,Q606,Q608	RN1201
	C125,C205-C208 C301,C302	CEANPO10M50		0000 0011	(DTC143ES)
	C303	CEASO10M50	**	Q609-Q611	RN2201 (DTA143ES)
	C101,C102,C117,C118	CEAS100M25	**	Q602,Q603	2SC2235
	C305,C509,C516	CEAS101M25	**	Q607,Q612-Q614,Q604	2SC2458
	C515	CEAS102M25	*	D614-D616	AEL1053
	C503,C504	CEAS102M35	*	D602-D613,D617,D622	AEL1072
	C113,C114	CEAS2R2M50	*	D601	AEL1073
	C105,C106,C115,C116,C510	CEAS470M25	*	D635,D636	RD3.0ESB
	C304	CEAS471M6	*	D625	RD4.7ESB2
	C235,C236	CEXA470M63	*	D618-D621,D623,D624,	188252
	C201,C202	CEYA100M25		D626-D629,D631-D634,	
	C215,C216,C231,C232,C505,	CEYA101M25		D637-D641	
	C506 C507,C508	CEYA470M25			
	C514	CKCYB103K50	SWITE	CHES	
	C209,C210	CKCYB182K50	Mark	Symbol & Description	Part No.
	C211,C212	CKCYB471K50	4.4	S601 - S620 Tact switch	ACC 711
	C119-C122,C124	CKCYF473Z50	**	(POWER, SP-A, SP-B, BASS EQ,	ASG - 711 (ASG - 703)
	C123	CKCYX104M25		AUX, TAPE, TUNER, PHONO, DAT,	
	C109,C110	CQMA222J50		CD, DAT D, CD D, SOURCE,	
	C111,C112	CQMA822J50		TUNER, DAT ► TAPE, TAPE ►	
	C219,C220	CEYA101M16		DAT, OFF, CD D REC, MUTING,	
PECIE	TORC			PURE.D.L)	
Mark	STORS Symbol & Description	Part No.	CAPA	CITORS	
IVIAIR	R259,R260 (0.33 × 2/5W)	ACN-139	Mark	Symbol & Description	Part No.
	R201,R202,R215-R218	RDR1/4PM□□□J		C606 (47000µF/5.5V)	ACH1037
\bigwedge_{Λ}	R205,R206,R516	RD1/4PMFL		$C606 (47000 \mu F/5.5 V)$	CEJAR22M50
Λ	R247-R250,R307,R237-R240,	RD1/4PMF□□□J		C609,C608	CEJA100M16
<u> </u>	R24/-R250,R30/,R23/-R240,				

A-X540

Mark	Symbol & Description	Part No.	OTHE	RS	
	C610	CEJA4R7M50	Mark	Symbol & Description	Part No.
	C603	CKDYB102K50	-		
	C601,C604	CKDYF473Z50		4P Pin jack (ADAPTOR)	AKB1033
	C607,C611,C612	CKDYX473M25		8P Speaker terminal (SPEAKERS) Mini jack (CONTROL)	AKE-111 AKN-207
RESIS	TORS			man just (SST) (SSZ)	71111 207
Vlark	Symbol & Description	Part No.	115.0		
	R601 - R604, R609, R613, R610 Other resistors	RD1/4PM J		OPHONE assembly STORS	
OTHE	RS		Mark	Symbol & Description	Part No.
Mark	Symbol & Description	Part No.		R425,R426	RS1PMF122J
*	X601 Ceramic resonator (4.19MHz)	ASS1022	OTHE	RS	
	Remote control sensor unit	AXX1005	Mark	Symbol & Description	Part No.
				Headphone jack (PHONES)	AKN1002
SP as	sembly				
SEMIC	CONDUCTERS				
Mark	Symbol & Description	Part No.		E assembly CONDUCTORS	
**	IC401	M5218PF	Mark	Symbol & Description	Part No.
**	Q401,Q402	2SC2235	**	IC702	LC4966
★.	D401-D403	1SS252	**	IC701	M5218PF
RELA	IES		**	Q705	RN1201
Mark	Symbol & Description	Part No.	**	Q706	(DTC143ES) RN2201
**	RY401,RY402 Relay	ASR-112			(DTA143ES)
**	RY403 Relay	ASR1005	**	Q701-Q704	2SC1740SLN
COILS	3		CAPA	CITORS	
Mark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
	L401,L402 AF choke coil (0.7μF)	ATH1011		C709,C710	CEASR33M50
	•			C703,C704	CEASR47M50
CAPA	CITORS			C705,C706 C707,C708	CEASOR1M50
					CEASO10M50
Mark	Symbol & Description	Part No.		C711,C712	CEAS100M25
Mark	Symbol & Description C401,C402,C405,C406	Part No. CEAS100M25		C711,C712	
Mark				C711,C712 C713,C714	CEAS470M25
Mark	C401,C402,C405,C406	CEAS100M25		C711,C712 C713,C714 C717,C718	CEAS470M25 CKMYB151K50
Mark	C401,C402,C405,C406 C403,C404	CEAS100M25 CEAS470M25	2500	C711,C712 C713,C714 C717,C718 C701,C702	CEAS470M25
	C401,C402,C405,C406 C403,C404 C407—C410	CEAS100M25 CEAS470M25 CFTXA823J50	RESIS	C711,C712 C713,C714 C717,C718 C701,C702 TORS	CEAS470M25 CKMYB151K50 CQMA153K50
RESIS	C401,C402,C405,C406 C403,C404 C407-C410 C411	CEAS100M25 CEAS470M25 CFTXA823J50	Mark	C711,C712 C713,C714 C717,C718 C701,C702 TORS Symbol & Description	CEAS470M25 CKMYB151K50 CQMA153K50 Part No.
Mark	C401,C402,C405,C406 C403,C404 C407-C410 C411 STORS Symbol & Description R415,R416	CEAS100M25 CEAS470M25 CFTXA823J50 CKCYF473Z50 Part No.		C711,C712 C713,C714 C717,C718 C701,C702 TORS	CEAS470M25 CKMYB151K50 CQMA153K50
RESIS Mark	C401,C402,C405,C406 C403,C404 C407-C410 C411 STORS Symbol & Description R415,R416 R413,R414	CEAS100M25 CEAS470M25 CFTXA823J50 CKCYF473Z50 Part No. RD1/4PMFL100J RD1/4PMF100J	Mark	C711,C712 C713,C714 C717,C718 C701,C702 TORS Symbol & Description VR702,VR703 Variable resistor	CEAS470M25 CKMYB151K50 CQMA153K50 Part No.
RESIS Mark	C401,C402,C405,C406 C403,C404 C407-C410 C411 STORS Symbol & Description R415,R416 R413,R414 R401-R404,R409,R410,R424	CEAS100M25 CEAS470M25 CFTXA823J50 CKCYF473Z50 Part No. RD1/4PMFL100J RD1/4PMF100J RD1/4PM□□□J	Mark 🛨	C711,C712 C713,C714 C717,C718 C701,C702 TORS Symbol & Description VR702,VR703 Variable resistor (30k×2)	CEAS470M25 CKMYB151K50 CQMA153K50 Part No.
RESIS Mark	C401,C402,C405,C406 C403,C404 C407-C410 C411 STORS Symbol & Description R415,R416 R413,R414	CEAS100M25 CEAS470M25 CFTXA823J50 CKCYF473Z50 Part No. RD1/4PMFL100J RD1/4PMF100J	Mark ★	C711,C712 C713,C714 C717,C718 C701,C702 TORS Symbol & Description VR702,VR703 Variable resistor (30k × 2) VR704 Variable resistor (10k × 2) VR701 Variable resistor (5k × 2) R731,R732	CEAS470M25 CKMYB151K50 CQMA153K50 Part No. ACT1031 ACT1032 ACT1033 RD1/4PM331J
	C401,C402,C405,C406 C403,C404 C407—C410 C411 STORS Symbol & Description R415,R416 R413,R414 R401—R404,R409,R410,R424 R427,R429	CEAS100M25 CEAS470M25 CFTXA823J50 CKCYF473Z50 Part No. RD1/4PMFL100J RD1/4PMF100J RD1/4PM□□□J RS2PMF681J	Mark ★	C711,C712 C713,C714 C717,C718 C701,C702 TORS Symbol & Description VR702,VR703 Variable resistor (30k × 2) VR704 Variable resistor (10k × 2) VR701 Variable resistor (5k × 2)	CEAS470M25 CKMYB151K50 CQMA153K50 Part No. ACT1031 ACT1032 ACT1033

AMP	assembly		Mark	Symbol & Description	Part No.
ESIST	ORS		$\Lambda \star$	T1 Power transformer (220V/240V)	ATS1142
ark	Symbol & Description	Part No.	\triangle	AC socket (3P OUTLET)	AKP-502
	R647,R650	RS1PMFR47J			
	R648,R649,R651,R652	RS1PMF010J	≜ **	FU2 Fuse (T2A/250V) FU1 Fuse (T2.5A/250V)	AEK-017 AEK-403
THER	IS				
ark	Symbol & Description	Part No.	\triangle	AC power cord Remote control unit	ADG1021 AXD1053
	PL601 – PL604 Pilot lamp	AEL1050			
	Lamp box	AMR1342	ΛE	ain assembly (AWZ1777)	
				CONDUCTORS	
			Mark	Symbol & Description	Part No.
	sembly				
OILS			** **	IC101 IC501	M5218P M5278L56
ark	Symbol & Description	Part No.	**	IC201,IC202	PA0016
	L701,L702 Axial inductor (5.6μH)	LAU5R6K	**	IC103	TC9163N
	CITORS		**	IC102	TC9164N
		Don't No.	**	IC104	μPD6362C
lark	Symbol & Description	Part No.	**	Q308	RN1201
	C715,C716	CKCYF473Z50			(DTC143ES
ESIST	TOR		**	G303	RN2203
	Combal & Degariation	Part No.	**	Q105,Q106	(DTA124ES 2SA1048
lark	Symbol & Description	Part IVO.	**	Q215,Q216	2SA965
*	VR705 Variable resistor (100k × 2)	ACX1012	4.4	Q201-Q204,Q209, Q210	2SA992
			**	d201d204,d209, d210	20A992
ED a	ssembly		**	Q306,Q502	2SB560
	CONDUCTOR		** **	Q213,Q214 Q207,Q208,Q211,Q212,Q301,	2SC2235 2SC2240
EIVIIC			* *	Q302,Q307,Q504	2002240
lark	Symbol & Description	Part No.	**	Q304,Q305	2SC2458
*	D630 LED	AEL1071	**	Q101-Q104	2SC2878
			**	Q501	2SD438
nemense	anamanamanamanamanamanamanamanamanamana	asasasasasasasas	**	Q503	2SD880
			*	D207,D208	HZS4BLL
1.2 A	-X440		÷	D205,D206	HZS5BLL
dino.	llaneous Parts List		*	D501	RBV402
			*	D305	RD13ESB
	OARD ASSEMBLIES	B N	*	D511	RD13ESB1
/lark	Symbol & Description	Part No.	*	D509.D510	RD16ESB3
	AF main assembly	AWZ1777	*	D306	RD5.6ESB
	Control main assembly	AWZ1779	*	D502-D507,D512-D515	S5566
	SP assembly			D004 D004 D000 D040	(11E2)
	HEADPHONE assembly CONNECTOR assembly		*	D201 – D204,D209 – D212, D301 – D304,D516,D517	188252
	TONE cocombly		DELES		
	TONE assembly LAMP assembly		RELAY		
	VR assembly		Mark	Symbol & Description	Part No.
	LED assembly		<u>∧</u>* *	RY501 Relay	ASR1012
THE	RS		TRAN	SFORMER	
	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
Vlark	O / III DOT CL DOCCII PRICII		MIGHT		

CAPACITORS

Vlark	Symbol & Description	Part No.
<u>î</u>	C511,C517 Power capacitors (0.01/AC400V)	ACG1002
	C512,C513 Power capacitors (0.01/AC150V)	ACG1005
	C501,C502 (5600/56)	ACH1031
	C227-C230	CCCSL101K500
	C217,C218	CCCSL150K500
	C213,C214,C233,C234	CCCSL220K500
	C103,C104,C107,C108,C203, C204	CKMYB221K50
	C221.C222	CCCSL470J50
	C223-C226	CCCSL680J50
	C125,C205 - C208	CCMSL101J50
	C301,C302	CEANPO10M50
	C303	CEASO10M50
	C101,C102,C117,C118	CEAS100M25
	C516,C219,C220,C231,C232	CEAS101M10
	C305,C505,C506,C509	CEAS101M25
	C515	CEAS102M25
	C503,C504	CEAS102M35
	C113,C114	CEAS2R2M50
	C105,C106,C115,C116,C507, C508,C510	CEAS470M25
		051047444
	C304	CEAS471M6
	C235,C236	CEXA470M63
	C201,C202	CEYA100M25
	C215,C216 C514	CEYA330M16 CKCYB103K50
	C209,C210	CKCYB182K50
	C109,C110	CKCYB222K50
	C211,C212	CKCYB471K50
	C111,C112	CKCYB822K50
	C119-C122,C124	CKCYF473Z50
	C123	CKCYX104M25
RESIS	STORS	
Mark	Symbol & Description	Part No.
	R259,R260 (0.33×2/5W)	ACN-139
	R201,R202	RDR1/4PM101J
Λ	R205,R206,R516,R247-R250,	RD1/4PMF□□□
	R307,R237 — R240,R301,R302, R253 — R256	
	11200 11210	
		RD1/8PM□□□J
	R313,R303 — R306,R315,R514, R515,R309,R133,R134,R139 —	RD1/8PM□□□J
Δ.	R313,R303 – R306,R315,R514, R515,R309,R133,R134,R139 – R144,R147 – R149,R314,R517	
<u>∧</u>	R313,R303 — R306,R315,R514, R515,R309,R133,R134,R139 —	RD1/8PM
⚠	R313,R303 – R306,R315,R514, R515,R309,R133,R134,R139 – R144,R147 – R149,R314,R517 R505,R501,R503,R245,R246, R251,R252	RFA1/4PS□□□□
∆	R313,R303 – R306,R315,R514, R515,R309,R133,R134,R139 – R144,R147 – R149,R314,R517 R505,R501,R503,R245,R246,	
∕∆ Отне	R313,R303 – R306,R315,R514, R515,R309,R133,R134,R139 – R144,R147 – R149,R314,R517 R505,R501,R503,R245,R246, R251,R252	RFA1/4PS□□□□
_	R313,R303 – R306,R315,R514, R515,R309,R133,R134,R139 – R144,R147 – R149,R314,R517 R505,R501,R503,R245,R246, R251,R252	RFA1/4PS□□□J
ОТНЕ	R313,R303 – R306,R315,R514, R515,R309,R133,R134,R139 – R144,R147 – R149,R314,R517 R505,R501,R503,R245,R246, R251,R252 Other resistors ERS Symbol & Description 4P Pin jack (DAT, TAPE)	RFA1/4PS□□□□ RD1/4PM□□□□J Part No. AKB1007
ОТНЕ	R313,R303 – R306,R315,R514, R515,R309,R133,R134,R139 – R144,R147 – R149,R314,R517 R505,R501,R503,R245,R246, R251,R252 Other resistors ERS Symbol & Description	RFA1/4PS□□□J RD1/4PM□□□J Part No.

Control main assembly (AWZ1779) SEMICONDUCTORS

Mark	Symbol & Description	Part No.
**	IC601	PDG022
**	IC602	TA7291S
**	Q601,Q605,Q606,Q608	RN1201
		(DTC143ES)
**	Q610	RN2201
		(DTA143ES)
**	Q602,Q603	2SC2235
**	Q607	2SC2458
*	D614-D616	AEL1053
*	D602-D609,D617,D622	AEL1072
*	D601	AEL1073
*	D635,D636	RD3.0ESB
*	D625	RD4.7ESB2
*	D618-D620,D623,D624,D632,	188252
	D638-D641	•
SWIT	CHES	
Mark	Symbol & Description	Part No.

Mark	Symbol & Description	Part No.
**	S601-S612,S618-S620	ASG-711
	Tact switch (POWER, SP-A,	(ASG-703)
	SP-B, BASS EQ, AUX, TAPE,	
	TUNER, PHONO, DAT, CD, DAT.D,	
	CD.D, CD.D REC, MUTING,	
	PURE D I)	

CAPACITORS

Mark	Symbol & Description	Part No.
	C606 (47000µF/5.5V)	ACH1070
	C602	CEJAR22M50
	C608	CEJA100M16
	C605	CEJA101M10
	C603	CKDYB102K50
	C601,C604	CKDYF473Z50
	C607,C611,C612	CKDYX473M25

RESISTORS

Mark	Symbol & Description	Part No.
	R6Q1 - R6Q3,R6Q9,R61Q,R613 Other resistors	RD1/4PM□□□J RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
*	X601 Ceramic resonator (4.19MHz)	ASS1022
	Remote control sencer unit	AXX1005

SP assembly
SEMICONDUCTORS

Mark	Symbol & Description	Part No.
**	IC401	M5218PF
**	Q401,Q402	2SC2240
+	D401-D403	1SS252

RELAIES

Mark	Symbol & Description	Part No.
**	RY401,RY402,RY403 Relay	ASR1005

COILS

Mark	Symbol & Description	Part No.	
	L401,L402 AF choke coil (0.7μH)	ATH1004	

CAPACITORS

Symbol & Description	Part No.
C401,C402,C405,C406	CEAS100M25
C403,C404	CEAS470M25
C411	CKCYF473Z50
C407-C410	CFTXA823K50
	C401,C402,C405,C406 C403,C404 C411

RESISTORS

Mark	Symbol & Description	Part No.
\triangle	R415,R416	RD1/4PMFL100J
$\overline{\mathbb{A}}$	R413,R414	RD1/4PMF100J
2-3	R401 - R404, R409, R410, R424	RD1/4PM□□□J
	R417,R418	RS1LMF J
	R427,R429	RS2PMF471J
	R428,R430	RS2PMF681J
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	4P Pin jack (ADAPTOR)	AKB1033
	8P Speaker terminal (SPEAKERS)	AKE-111
	Mini jack (CONTROL)	AKN-207

HEADPHONE assembly OTHER

Mark	Symbol & Description	Part No.
-	Headphone jack (PHONES)	AKN1002

CONNECTOR assembly

No parts are supplied with the CONNECTOR assembly.

TONE assembly

Refer to A-X540.

LAMP assembly

Refer to A-X540.

VR assembly

COILS

Mark	Symbol & Description	Part No.
	L701.L702 Axial inductor (5.6µH)	LAU5R6K

CAPACITORS

Mark	Symbol & Description	Part No.
	C715,C716	CKCYF473Z50

RESISTOR

Mark	Symbol & Description	Part No.
*	VR705 Variable resistor (100k × 2)	ACX1013

comming a commin

LED assembly

Refer to A-X540.

4.3 A-X340

Miscellaneous Parts List P.C.BOARD ASSEMBLIES

Mark	Symbol & Description	Part No.
	AF main assembly	AWZ1781
	Control main assembly	AWZ1782
	SP assembly	
	HEADPHONE assembly	
	CONNECTOR assembly	
	TONE assembly	
	LAMP assembly	
	VR assembly	
	LED assembly	

OTHERS

Mark	Symbol & Description Part No.						
**	Q3,Q4 Transistor	2SA1263N					
**	Q1,Q2 Transistor	2SC3180N					
△ ★	T1 Power transformer (220V/240V)	ATS1143					
\triangle	AC socket (3P OUTLET)	AKP-502					
*	FU2 Fuse (T1.25A/250V)	AEK-018					
△ ★★	FU1 Fuse (T2.5A/250V)	AEK-403					
\wedge	AC Power cord	ADG-063					
_	Remote control unit	AXD1052					



AF m	ain assembly (AWZ1781)		Mark	Symbol & Description	Part No.
SEMICONDUCTORS				C221,C222	CCCSL470J50
Mark	Symbol & Description	Part No.		C223-C226	CCCSL680J50
**	IC101	M5218P		C125,C205-C208	CCMSL101J50
**	IC501	M5278L56		C301,C302	CEANPO10M50
**		PA0016		C303	CEASO10M50
**	IC102	TC9164N		C101,C102,C117,C118	CEAS100M25
**	IC104	μPD6362C		C516,C219,C220,C231,C232	CEAS101M10
**	0308	RN1201		C505,C506,C509,C305	CEAS101M25
		(DTC143ES)		C235,C236	CEAS101M50
**	Ø303	RN2203		C515	CEAS102M25
		(DTA124ES)		C503,C504	CEAS102M35
**	Q105,Q106	2SA1048		C113,C114	CEAS2R2M50
**	Q215,Q216	2SA965			
				C105,C106,C115,C116,C507,	CEAS470M25
**	Q201,Q202,Q203,Q204,Q209,	2SA992		C508,C510	
~ ~ ~	Q210			C304	CEAS471M6
**	Q306,Q502	2SB560		C215,C216	CEYA220M16
**		2SC2235		C201,C202	CEYA100M25
**	Q207,Q208,Q211,Q212,Q301,	2SC2240			
	Q302,Q307,Q504	0000455		C514	CKCYB103K50
**	Q304,Q305	2SC2458		C209,C210	CKCYB182K50
				C109,C110	CKCYB222K50
**	Q101-Q104	2SC2878		C211,C212	CKCYB471K50
*	Q501	2SD438			
**	Q503	2SD880		C111,C112	CKCYB822K50
				C119,C120,C124	CKCYF473Z50
*	D207,D208	HZS4BLL		C123	CKCYX104M25
*	D205,D206	HZS5BLL			
*	D501	RBV402	RESIS	STORS	
*	D305	RD13ESB			
*	D511	RD13ESB1	Mark	Symbol & Description	Part No.
	DT00 DE40	PD 4 OF OD O		R259,R260 (0.33×2/5W)	ACN-139
*	D509,D510	RD16ESB3	$\stackrel{lack}{\mathbb{A}}$	R205,R206,R516	RD1/4PMFL
*	D306	RD5.6ESB	<u> </u>	R307,R237-R240,R301,R302,	RD1/4PMF□□□J
*	D502-D507,D512-D515	S5566		R253-R256,R247-R250	
		(11E2)			
*	D201 - D204,D209 - D212, D301 - D304,D516,D517	1SS252		R313,R303 - R306,R514,R515, R309,R133,R134,R139 - R144,	RD1/8PM□□□J
				R147-R149,R314,R517,R315	
RELA'	Υ		\triangle	R505,R501,R503,R245,R246,	RFA1/4PS□□□J
Mark	Symbol & Description	Part No.		R251,R252	
<u>∧</u>* *	RY501 Relay	ASR1012			
TRAN	SFORMER			Other resistors	RD1/4PM□□□J
Mark	Symbol & Description	Part No.	OTHE	RS	
<u></u> ★	T501 Power transformer	ATT1066	Mark	Symbol & Description	Part No.
	CITORS			4P Pin jack (TAPE, DAT) 6P Pin jack (CD, TUNER, AUX)	AKB1007 AKB1024
Mark	Symbol & Description	Part No.		2P Pin jack (PHONO)	AKB1039
\triangle	C511,C517 Power capacitors (0.01/AC400V)	ACG1002			
	(0.01/AC150V) C512,C513 Power capacitors (0.01/AC150V)	ACG1005		rol main assembly (AWZ17 CONDUCTORS	782)
	C501,C502 (4700/50)	ACH-252	SEIVII	JUI DOUI UNG	
	C227 – C230	CCCSL101K500	Mark	Symbol & Description	Part No.
	C217,C218	CCCSL150K500	**	IC601	PDG022
	C217,C218 C213,C214,C233,C234	CCCSL220K500	**	IC602	TA7291S
	C103,C104,C107,C108,C203,	CKMYB221K50			

C204

/lark	Symbol & Description	Part No.	RELAII	ES	
**	Q601,Q605,Q606,Q608	RN1201	Mark	Symbol & Description	Part No.
		(DTC143ES) RN2201	**	RY401,RY403 Relay	ASR1005
**	Q610	(DTA143ES)			
	Q602	2SC2235	COILS		
**	Q607	2SC2458	Mark	Symbol & Description	Part No.
*	D602,D604,D605-D609,D617,	AEL1072		L401,L402 AF choke coil	ATH1004
	D622			(0.7 μF)	
*	D601	AEL1073	CAPA	CITORS	
*	D635,D636	RD3.0ESB RD4.7ESB2	CALA	CHOILD	
*	D625	HD4.7E3D2	Mark	Symbol & Description	Part No.
*	D618 - D620, D623, D624, D632, D638 - D641	1SS252		C401,C402,C405,C406 C403,C404 C411	CEAS100M25 CEAS470M25 CKCYF473Z50
SWIT	CHES			C407-C410	CQMA823K50
Mark	Symbol & Description	Part No.			
		ASG-711	RESIS	TORS	
**	S601 - S610, S612, S619, S620 Tact switch (POWER, SP-A,	(ASG-703)	Mark	Symbol & Description	Part No.
	SP-B, BASS EQ, AUX, TAPE,	, , , , , , , , , , , , , , , , , , , ,	\bigwedge	D415 D416	RD1/4PMFL100
	TUNER, PHONO, DAT, CD, DAT.D,		$\stackrel{igwedge}{\mathbb{A}}$	R415,R416	RD1/4PMF100J
	CD.D, CD.D REC, MUTING,		23	R413,R414 R401—R404,R409,R410,R424	RD1/4PM□□□□
	PURE.D.L)			R417.R418	RS1LMF
				R427,R429	RS2PMF391J
CAPA	CITORS		•	N427,N429	11021 1411 0010
Mark	Symbol & Description	Part No.		R428,R430	RS2PMF471J
Wark	Symbol & Description			Other resistors	RD1/8PM□□□.
	C606 (47000µF/5.5V)	ACH1070			
	C602	CEJAR22M50	OTHERS		
	C608	CEJA100M16	Mark	Symbol & Description	Part No.
	C605	CEJA101M10	- India	- Jimor & Boompile	
	C603	CKDYB102K50		4P Pin jack (ADAPTOR)	AKB1033
		01/01/5/170750	•	4P Speaker terminal (SPEAKERS)	AKE-109
	C601,C604	CKDYF473Z50		Mini jack (CONTROL)	AKN-207
	C607,C611,C612	CKDYX473M25			
RESIS	STORS		HEAD	PHONE assembly	
Mark	Symbol & Description	Part No.	Refer to	o A-X440.	
- Inak	R601 – R603,R609,R610,R613	RD1/4PM□□□J	CON	NECTOR assembly	
	Other resistors	RD1/8PM□□□J	Refer to	o A-X440.	
ОТНЕ	RS		Note: N	5 N N440.	
Mark	Symbol & Description	Part No.			
-			TONE	E assembly	
*	X601 Ceramic resonator (4.19MHz)	ASS1022	SEMI	CONDUCTORS	
	Remote control sencor unit	AXX1005	Mark	Symbol & Description	Part No.
			**	IC702	LC4966
			**	IC701	M5218PF
SP as	ssembly				
	CONDUCTORS		**	Q705	RN1201
		Part No.		0700	(DTC143ES)
Mark	Symbol & Description	rait ivo.	**	Q706	RN2201 (DTA143ES)
**	IC401	M5218PF	**	Q701 - Q704	2SC1740SLN
**	Q401	2SC2240	САРА	CITORS	
			JAN M		

1SS252

D401,D403

Symbol & Description

C709,C710

Part No.

CEASR33M50

6. IC INFORMATION

MICRO COMPUTER (PDG022)

Terminal No.	Terminal name	1/0	Condition	Terminal status	Remarks	
1	WP	I	Power supply "ON"	M	If the input frequency is not 50/60Hz the mode will be switche to backup mode.	
2	PA0	0	For A-X540, when control is performed.		Key matrix output	
3	PA1		roemed.			
4	PA2					
5	PA3					
6	PB0	0				
7	PB1	0			Non used	
8	PB2					
9	PB3					
10	PE0					
11	SP-A	0	SP selector···SP-A	L	SP-A IND illuminates	
12	SP-B	0	SP selector···SP-B	L	SP-B IND illuminates	
13	B•EQ	0	BASS EQ "ON"	Н	BASS EQ IND illuminates	
14	AUX	0	When FUNCTION SEL. set at	L	AUX IND illuminates	
15	TAPE	0	each position.	L	TAPE IND illuminates	
16	TUNER	0		L	TUNER IND illuminates	
17	PHONO	0		L	PHONO IND illuminates	
18	DAT	0]	L	DAT IND illuminates	
19	CD	0		L	CD IND illuminates	
20	PC2	0	·		Non used	
21	PC3	0	•••••••••	*****		
22	DAT.D	0	DAT DIRECT "ON"	Н	DAT DIRECT IND illuminates	
23	CD.D	0	CD DIRECT "ON"	Н	CD DIRECT IND illuminates	
24	UP	0	VOLUME CONTROL		MODE Terminal No. 24 25	
25	DOWN	0	UP/DOWN		VOL.UP H L VOL.DOWN L H	
26	SOURCE	0		L	SURCE IND illuminates	
27	TUNER	0	When REC SEL. set at each posi-	L	TUNER IND illuminates	
28	DA·T→T	0	tion.	L	DAT→T IND illuminates	

Terminal No.	Terminal name	I/O	Condition			Tern		Remarks
29	TAPE→D	0	When REC SEL. set at each position.			I	,	TAPE→D IND. illuminates
30	CD.D.REC	0	CD DIRECT REC	"ON"		I	,	CD DIRECT IND illuminates
31	NC							
32	Vss		GND					
33	MUT IND	0	MUTING "ON"			I	Ī	Red IND illuminates
34	VR IND	0	Power supply "ON	1"		I	I	Yellow IND illuminates
35	PURE DIRECT	0	LINE DIRECT			I	,	
36	XTAL	0	Connect Crystal re	esonator		MAA	WYT	CLOCK oscillating terminal (For
37	EXTAL	I	(4.19MHz)			, MA	MW	A-X540,oscilllation is made if necessary.)
38	RESET	I	When inputting R	ESET pu	lse			
39	PXo/SC	I						GND.
40	PX ₁ /SOB	I	Model Teraminal NO.	A-X540	A-X440	A-X340		By arranging the terminal levels of
41	PX 2/SOA	I	40	Н	L	L		Pins 40 and 41 as shown in the table, the program can be adjusted
40	DV /CI	T	41 L H		L	<u></u>	to the each models.	
42	PX ₃ /SI	I			· · · · · ·	 		
43	F•MUTE	0	When switching o TION, CD or DA				L	Prevents click noise
			During -∞ MUTING		I	I		
44	B.EQ CONT.	0	BASS EQ "ON"			I	I	Activates BASS EQ circuit
45	PY ₂ /WP	I	The IC601 (PDG022) is a "SUPERSII CLOCK only when necessarry (only Athe CLOCK when the respective button oscillation is required. If, for example, the terminal oscillates CLOCK and will actions, it stops CLOCK again and en			A-X5 atton on ole, a "H will de	540) . ' the fr I" sigr etermi	Therefore, this terminal will oscillate ont panel is pressed or when CLOCK hal is input when pressing the button, ne the function. After the necessary
46	REMIN	I					JL	
47	ST-BY	0	Power supply "ON	1"		I	I	Relay (RY501) "ON"
48	PROTECTION	0	Power supply "ON	1"		I	I	Controls relay for SP (RY401 and
			(7 seconds after po	wer Suppl	ly ON.)	(1	RY402) and relay for HP (RY4	
49	SP-B	0	SP SELECTOR "	SP-B"	,	I	I	Controls relay for SP-B (RY402).
50	SP-A	0	SP SELECTOR "	SP-A"		I	I	Controls relay for SP-A (RY401).
51	PMO	0					•••	Non used
52	MUTING	0	During MUTING	(-20dB)		ŀ	I	ON/OFF of -20dB MUTING.
53	D.OFF	0	LINE DIRECT "C	FF"		I	,	

Terminal No.	Terminal name	I/O	Condition	Condition Terminal Remarks	
54	DAT.D	0	DAT DIRECT "ON"	L	
55	CD.D	0	CD DIRECT "ON"	L	
56	CK				
57	DATA	0	When FUNCTION was changed.	лл	For controlling FUNCTION.
58	ST				
59	ST-BY IND	0	During STAND-BY.	L	STAND-BY IND illuminates
60	PJ ₀	I	For A-X540, when the control ac-	n the control ac- Key matrix input	
61	PJ ₁		tion is performed.	пп	
62	PJ ₂				
63	PJ ₃	3			
64	$V_{ exttt{DD}}$			ЛЛ	+5V Power supply terminal



7. SPECIFICATIONS

A-X540

Amplifier Section
DIN continuous power output (both channels driven)
1 kHz, 1%, 8Ω 100W + 100W
DIN music power (both channels driven)
1 kHz, 1%, 8Ω
Continuous power output (both channel driven)
20 Hz to 20 kHz, T.H.D 0.3%, $8\Omega \dots 85W + 85W$
IEC Continuous power output (both channel driven)
63 Hz to 12.5 kHz, T.H.D 0.7%, 8Ω 95W +95W
Total harmonic distortion *
1 kHz, 50W, 8Ω 0.005% *
Input (sensitivity/impedance)
PHONO 2.5 mV/50 kΩ
TUNER, CD, AUX, TAPE PLAY, DAT PLAY,
ADAPTOR
Overload level
PHONO 1 kHz, 0.1%
Output level
TAPE REC, DAT REC, ADAPTOR OUT 150 mV
Frequency Response
PHONO 20 Hz to 20 kHz ± 0.5 dB
TUNER, CD, AUX, TAPE PLAY, DAT PLAY, ADAPTOR
10 Hz to 100 kHz $^{+1}_{-3}$ dB
CD (CD DIRECT ON) 10 Hz to 100 kHz +1 dB
CD (CD DINECT ON) 11111 -3
Tone Control
BASS
TREBLE
BASS EQUALIZER (MAX) +10 dB (60 Hz)
MUTING
Signal-to-Noise ratio (IHF short circuited, A network)
PHONO 72 dB
CD (CD DIRECT ON)
Signal-to-Noise ratio (DIN, continuous power/50 mW)
PHONO 68 dB/60 dB
CD (CD DIRECT ON) 82 dB/62 dB
TUNER, CD, AUX, TAPE PLAY, DAT PLAY,
ADAPTOR 82 dB/62 dB

Power Supply/Miscellaneous

Power requirements
European model AC220 V-, 50/60 Hz
U.K. model
Other destination modelsAC 110 V/120-127 V/
220 V/240 V (switchable), 50/60 Hz
Power consumption
European model
U.K. model
AC outlets
U.K. model
switched (×3)100W
Other destination models
switched (×2)
Unswitched (×1)
Dimensions 360 (W) × 349 (D) × 115 (H) mm
14-1/8 (W) × $13-3/4$ (D) × $4-1/2$ (H) in
Weight 8.5 kg (18 lb 13 oz)
Accessories
Remote control unit
Batteries AAA/RO3
Operating instructions

- Specifications and design subject to possible modification without notice due to improvements.
- * Measured by Audio Spectrum Analyzer.

A-X440, A-X340

A-X440

Amplifier Section
DIN continuous power output (both channels driven) 1 kHz, 1%, 8 Ω
DIN music power (both channels driven)
1 kHz, 1%, 8 Ω
20 Hz to 20 kHz, T.H.D 0.3%, 8 Ω 55 W + 55 W IEC continuous power output (both channels driven)
63 Hz to 12.5 kHz, T.H.D 0.7%, 8 Ω60 W + 60 W
Total harmonic distortion 1 kHz, 35 W, 8 Ω
Input (sensitivity/impedance) PHONO
TUNER, CD, AUX, TAPE PLAY, DAT PLAY, ADAPTOR
PHONO 1 kHz, 0.1% 150 mV
Output (level/impedance) TAPE REC, DAT REC, ADAPTOR OUT 150 mV
Frequency Response PHONO20 Hz to 20 kHz ±0.5 dB
TUNER, CD, AUX, TAPE PLAY, DAT PLAY, ADAPTOR
CD (CD DIRECT ON)
BASS±8 dB 100 Hz
TREBLE ±8 dB 10 kHz
BASS EQUALIZER+10 dB (60 Hz)
MUTING20 dB/-∞
Signal-to-Noise ratio (IHF short circuited, A network)
PHONO
CD (CD DIRECT ON)
Signal-to-Noise ratio (DIN, continuous power/50 mW) PHONO
TUNER, CD, AUX, TAPE PLAY, DAT PLAY, ADAPTOR
Power Supply/Miscellaneous
Power requirements
U.K., Australian models ~ AC 240 V, 50/60 Hz
Other destination models ~ AC 110 V/120 - 127 V/
220 V/240 V (switchable), 50/60 Hz
Power consumption Other destination models390 W
U.K., Australian models390 W
AC outlets
U.K. model
Switched (× 3) 100 W
Other destination models
Switched (× 2) 100 W
Unswitched (× 1)
Dimensions
14-3/16 (W) × 13-5/8 (D) × 4-9/16 (H) in Weight
Accessories
Operating instructions1
Remote control unit
Batteries (AAA/R03)
Specifications and design subject to possible modification with-
 Specifications and design subject to possible modification with out notice due to improvements.
*Measured by Audio Spectrum Analyzer.

A-X340

Amplifier Section
DIN continuous power output (both channels driven)
1 kHz, 1%, 8 Ω
1 kHz, 1%, 8 Ω85 W + 85 W
Continuous power output (both channels driven) 20 Hz to 20 kHz, T.H.D 0.5%, 8 Ω30 W + 30 W
IEC continuous power output (both channels driven)
63 Hz to 12.5 kHz T.H.D 0.7%, 8 Ω 40 W + 40 W
Total harmonic distortion 1 kHz, 25 W, 8 Ω
Input (sensitivity/impedance)
PHONO
TUNER, CD, AUX, TAPE PLAY, ADAPTOR150 mV/50 k Ω
Overload level PHONO 1 kHz, 0.1%
TAPE REC, ADAPTOR OUT 150 mV
Frequency Response
PHONO20 Hz to 20 kHz ±0.5 dB TUNER, CD, AUX, TAPE PLAY, ADAPTOR
10 Hz to 100 kHz +1 dB
CD (CD DIRECT ON)
Tone Control
BASS ±8 dB (100 Hz)
TREBLE ±8 dB (10 kHz)
BASS EQUALIZER+8 dB (60 Hz)
MUTING20 dB/-∞
Signal-to-Noise ratio (IHF short circuited, A network) PHONO72 dB
CD (CD DIRECT ON)
Signal-to-Noise ratio (DIN, continuous power/50 mW)
PHONO
TUNER, CD, AUX, TAPE PLAY, ADAPTOR82 dB/62 dB
CD (CD DIRECT ON)
Power Supply/Miscellaneous
Power requirements
European model ~ AC 220 V, 50/60 Hz
U.K., Australian models ~ AC 240 V, 50/60 Hz
Power consumption
European model
AC outlets
Switched (× 3)
Dimensions
Weight 5.9 kg
Accessories
Operating instructions
Remote control unit
Batteries (AAA/R03)
Specifications and design subject to possible modification with-
out notice due to improvements.
*Measured by Audio Spectrum Analyzer.